



# **Cagayan Valley Regional Development Plan Results Matrix 2017-2022**

## TABLE OF CONTENTS

<u>CHAPTER</u>	<u>TITLE</u>	<u>PAGE NUMBER</u>
5	Ensuring People-Centered, Clean, And Efficient Governance	2
6	Pursuing Swift And Fair Administration Of Justice	5
7	Promote Philippine Culture And Values	7
8	Expanding Economic Opportunities In Agriculture, Forestry, And Fisheries	10
9	Expanding Economic Opportunities In Industry And Services Through Trabaho And Negosyo	16
10	Accelerating Human Capital Development	20
11	Reducing Vulnerability Of Individuals And Families	25
12	Building Safe And Secure Communities	28
13	Reaching For The Demographic Dividend	30
14	Vigorously Advancing Science, Technology, And Innovation	32
15	Ensuring Sound Macroeconomic Policy	35
16	Support To The National Competition Policy	38
17	Attaining Just And Lasting	40
18	Ensuring Security, Public Order, And Safety	42
19	Accelerating Infrastructure Development	45
20	Ensuring Ecological Integrity, Clean, And Healthy Environment	52

## **CHAPTER 5: ENSURING PEOPLE-CENTERED, CLEAN, AND EFFICIENT GOVERNANCE**

The overall outcome under this plan component is "efficient and effective governance strengthened". To further strengthen the effectiveness and efficiency of governance in all forms, three intermediate outcomes were identified, namely: a) effective and transparent local governance increased; b) responsiveness of RLAs, SUCs, GOCCs, and LGUs increased, and; c) effectiveness and efficiency in government budgeting and spending enhanced. The strategies under each of the identified intermediate outcomes are as follows:

### **Intermediate Outcome 1: Effective and Transparent Governance Increased**

- Strengthen LGU capacities for integrated planning, investment programming, budgeting, implementation, monitoring and evaluation
- Strict monitoring of the full disclosure policy particularly on public transactions and fiscal operations
- Modernization of the local government units.
- Improved participation of all sectors and ensure consensus-oriented regional governance

### **Intermediate Outcome 2: Responsiveness of RLAs, SUCs, GOCCs, and LGUs Increased**

- Sustain implementation of RA 9485;
- Scale-up Seal of Good Local Governance (SGLG);
- Streamlining of business processes and harnessing competitiveness of LGUs; and
- Institution of Quality Management Systems and other process improvements.

### **Intermediate Outcome 3: Effectiveness and Efficiency in Government Budgeting and Spending Enhanced**

- Broaden and enhance PFM Implementation; and
- Institutionalize internal audit service (IAS) to LGUs and RLAs.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 5: ENSURING PEOPLE-CENTERED, CLEAN, AND EFFICIENT GOVERNANCE**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Enhancing the social fabric by building trust in public institutions															
Chapter Outcome 1															
People-centered, innovative, clean, efficient, effective and inclusive delivery of public goods and services ensured															
Sub-chapter Outcome 1.1															
Efficient and Transparent Governance Increased	Percentage of PCMs fully compliant to the Full Disclosure Policy (FDP) (%)	2016	99 (97 out of 98 LGUs)	100	100	100	100	100	100	100	FDP Portal	LGUs, DILG	DILG	LGU election conducted every 3 years.	
	Number of PCMs with the required NGO representation in the Local Development Council increased (cumulative)	2017	-	45	-	53	-	98	-	98	DILG Accomplishment Report	LGUs, DILG	DILG	Term-based	
	Scorecard of cities on Government Efficiency Index Improved (CICM) <sup>e</sup>														
	Tuguegarao City	2016	14.97	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Competitiveness index report on Cities and Municipalities – National Competitiveness Council Website	CLGUs, DTI	National Competitiveness Council/ DTI		
	Iligan City	2016	15.47	increasing	increasing	increasing	increasing	increasing	increasing	increasing					
	Cauayan City	2016	13.79	increasing	increasing	increasing	increasing	increasing	increasing	increasing					
	Santiago City	2016	14.75	increasing	increasing	increasing	increasing	increasing	increasing	increasing					
	Proportion of women in managerial positions (CESO) (%)	2016	32	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Reports on plantilla positions in the government	CSC	CSC		
Aggregate Outputs															
	Citizen Participation in Auditing conducted	2016	1	1	1	1	1	1	1	6 CPA conducted	CPA Report	COA	COA		
Sub-chapter Outcome 1.2															
Responsiveness of RLAs, SUCs, GOCCs, and LGUs Increased <sup>e</sup>	Proportion of agencies with a passing rate in the ARTA Report Card Survey (%)	2017	-	80	80	80	80	80	80	80	ARTA Report	CSC	CSC	Government agencies fully complies with the requirements of the Anti-Red Tape Act (RA 9485) and improve and innovate frontline service delivery.	
	Percentage of P/C/M LGUs conferred with the Seal of Good Local Governance (SGLG) increasing (%)	2016	22	24	26	28	30	32	34	35	Government Assessment Report	LGUs, DILG	DILG	SGLG is upgraded every year. Targets may vary depending on CO targets. 5% increase in number of LGUs annually.	
Aggregate Outputs															
	Number of LGUs which passed the SGLG essential area on Business-friendly and competitiveness increased (cumulative)	2016	53	55	57	59	61	63	65	65	Government Assessment Report	LGUs, DILG	DILG	LGUs are assessed every year as part of the criteria for the SGLG.	
	Number of Cities and Municipalities with streamlined Business Permit and Licensing System (BPLS) (cumulative)	2017	-	20	40	60	75	85	93	93	BPLS Progress report	LGUs, DILG	DILG		

**Notes:**

a Actual data based on the most recent available data.

b May either be the cumulative or incremental target value at the end of the Plan period

c Agency accountable for delivering the outputs/achievement of outcomes

d Lead agency responsible for reporting progress on indicator targets

e See also Chapter 16 on Competitiveness Index of PLGUs

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 5: PEOPLE-CENTERED, CLEAN, AND EFFICIENT GOVERNANCE**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
	Percentage of Agencies/LGUs with functional SPMS increased														
	RLAs	2016	-	increasing	increasing	increasing	increasing	increasing	increasing	increasing	SPMS Monitoring report	RLAs, LGUs, CSC	CSC		
	Provincial LGUs	2016	-	increasing	increasing	increasing	increasing	increasing	increasing	increasing		LGUs, CSC	CSC		
	City LGUs	2016	-	increasing	increasing	increasing	increasing	increasing	increasing	increasing		LGUs, CSC	CSC		
	Municipal LGUs	2016	-	increasing	increasing	increasing	increasing	increasing	increasing	increasing		LGUs, CSC	CSC		
	Percentage of agencies assisted compliant to Program to Institutionalize Meritocracy and Excellence in Human Resource Management (PRIME) Maturity Levels increased	2016	51	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PRIME-HRM Report	RLAs, CSC	CSC		
Sub-chapter Outcome 1.3															
Effectiveness and Efficiency in Government Budgeting and Spending Enhanced	Proportion of LGUs adopting PFM Improvement measures (%) <sup>f</sup>	2016	100	-	-	100	-	-	100	100	PFMIP Tracking Tables	LGUs, DBM	DBM	All LGUs are expected to have implemented their PFMIPs after three years.	
Aggregate Outputs															
	Number of LGUs with adverse/disclaimer COA findings														
	Adverse	2015	2	None	None	None	None	None	None	None	COA Annual Report	LGUs, DILG, COA	COA		
	Disclaimer	2015	1	None	None	None	None	None	None	None					

**Notes:**

<sup>f</sup> PFMIP assessment is undertaken by the LGUs every three years

## CHAPTER 6: Pursuing Swift and Fair Administration of Justice

For the succeeding years, the swift and fair administration of justice will be focused on assuring equitable access of the regional populace to justice as this concretely shows the sincere efforts of the government to enhance the social fabric. This is expected to lead to the overall outcome of "efficient and effective governance strengthened". To achieve this outcome, the following are the identified strategies:

### **Intermediate Outcome: Equitable Access to Justice Assured for All**

- Implement judicial reforms;
- Ensure adherence of human rights to all;
- Reinforce agrarian justice delivery; and
- Reintegration opportunities for offenders.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 6: PURSUING SWIFT AND FAIR ADMINISTRATION OF JUSTICE**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Societal Goal														
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy														
Intermediate Goal														
Enhancing the social fabric by building trust in public institutions														
Chapter Outcome 1														
Swift and fair administration of justice ensured														
Sub-chapter Outcome 1.1														
Equitable Access to Justice Assured for All	Percentage of cases resolved in 15 working days (prescribed period) increased (%)	2016	80	83	85	87	88	90	92	92	MAREIS System generated monitoring	CHR	CHR	Assumes provision of enough manpower and judicial reforms implemented
	Percentage of resolved human rights violation cases resulting in access to remedies sustained (%)	2016	85	85	85	85	85	85	85	85	MAREIS System generated monitoring	CHR	CHR	
Aggregate Outputs														
	Number of complaints on Women, Children and LGBTI investigated	2016	56	60	65	60	70	55	58	368	MAREIS System generated monitoring	CHR	CHR	Assumes provision of enough manpower and judicial reforms implemented
	Reported Cases of Violence Against Women	2016	955	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Monthly Report/ CIRAS	PNP	PNP	Assumes the need to increase human resources
	Reported Crimes Committed Against Children	2016	822	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Monthly Report/ CIRAS	PNP	PNP	
	Number of Agrarian Law Implementation (ALI) cases resolved (incremental)	2016	1,314	1,427	1,520	1,892	1,949	2,008	2,069	10,865	LCMS	DAR	DAR	Filing of cases is beyond control of DARAB; Assumes provision of enough manpower
	Number of mediation conducted for ALI cases (incremental)	2016	TBD	8,976	9,206	8,637	8,896	9,163	9,439	54,317	LCMS	DAR	DAR	
	Number of adjudication of agrarian cases resolved (incremental)	2016	1,365	1,719	1,417	1,375	1,417	1,459	1,504	8,891	LCMS	DARAB	DAR	
	Number of mediation conducted for the adjudication of agrarian cases (incremental)	2016	TBD	1,585	1,070	1,300	1,341	1,381	1,423	8,100	LCMS	DARAB	DAR	

**Notes:**

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## CHAPTER 7: Promoting Philippine Culture and Values

Following the RDP framework's pillar of *"Malasakit"*, the *Regional Development Plan (RDP)* will aggressively promote awareness of Philippine culture. Moving towards the overall outcome of promoting awareness and valuing of cultural diversity, the following intermediate outcomes would have been achieved: (1) Deepened appreciation of the Philippine Culture; and (2) Strengthened culture-based regional development. Strategies that will drive the realization of these intermediate outcomes will address the concerns on cultural diversity as shown below:

### *Intermediate Outcome 1: Deepened appreciation of Philippine Culture*

- Inculcate *"Malasakit"* values for the common good with sub-strategies concerning:
  - ✓ Establishment of regional institution in charge of culture and arts promotion and protection.
  - ✓ Strict enforcement of cultural laws such as the National Cultural Heritage Act, IPRA law.
  - ✓ Promotion of IP educational interventions. Development and promotion of culture of eco-tourism.

### *Intermediate Outcome 2: Strengthened culture-based regional development (Higher regard for culture in regional development)*

- Value diverse cultures with the following sub-strategies
  - ✓ Utilize various channels of values inculcation to reach all community members;
  - ✓ Increase government efforts for promotion of values that foster the common good;
  - ✓ Mainstream cultural education in the basic, technical, vocational, and higher education systems;
  - ✓ Development of Knowledge Centers;
  - ✓ Strengthen the protection of the rights of vulnerable sectors (indigenous peoples, women, youth and children, and PWDs) of society to access cultural resources and live a life free from discrimination and fear;
  - ✓ Assessment of status of cultural properties;
  - ✓ Encouragement of Cultural exchanges; and
  - ✓ Gender mainstreaming in culture promotion and protection interventions.
- Strengthen Values of Creativity (*"Pagkamalikhain"*) with the following sub-strategies:
  - ✓ Build appreciation of Filipino creativity;
  - ✓ Establishment of historic and cultural center in the region;
  - ✓ Development of IP instructional materials;
  - ✓ Integration of more Indigenous Knowledge Systems and Practices (IKSPs);
  - ✓ Recognize creative and artistic artworks.



**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 7: PROMOTING PHILIPPINE CULTURE AND VALUES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Enhancing the social fabric by building trust in public institutions															
Chapter Outcome 1															
Deepened appreciation of Filipino Values															
Sub-chapter Outcome															
Inculcated "Malasakit" values for the common good	Standard Filipino "Malasakit" values in the curriculum adopted	-	-	Primary 4-6	Primary K-6	Primary K-6, Junior HS	Primary, Junior Senior HS	Primary, Junior Senior HS	Primary, Junior Senior HS	Primary, Junior Senior HS	Accomplishment Report			Dependent on the development of curriculum at the national level; Integration of local cultural values by DepEd Division Offices	
	Level of awareness of "Malasakit" Value increased (Proportion of Over-all Training Feedback Rating - with values orientation)	2016	93% at least V.S.	93% at least V.S.	93% at least V.S.	93% at least V.S.	93% at least V.S.	93% at least V.S.	93% at least V.S.	93% at least V.S.	Accomplishment Report	CSC		Possible revival of Values Orientation Workshop	
Aggregate Outputs															
	Increased number of campaign programs on the rights of indigenous people (recognized SPED Center) , SPED Enrollment														
	DepEd	2016	20	28	37	46	55	64	71	71	Accomplishment Report	DepED			
	NCCA	2016	20		1	2	3	4	5	5	Accomplishment Report	NCCA			
	No. of development plans with culture components	2016	6	6	6	6	6	6	6	36	PDPFPs, CDPs & CLUP	NEDA, DILG, HLURB		PDPFPs (6-year plan) - 2022: CDPs and CLUPs	
	Values Restoration Program implemented (% implementation)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Accomplishment Report	CSC			
Chapter Outcome 2															
Strengthened culture-based regional development															
Sub-chapter Outcome 2.1															
Valued our diverse cultures	Wide range of diversified tourism products developed, enhanced and marketed. Tourism Destination Areas (TDA) developed to enhance visitor experience and interest that will ensure repeat visits, as follows: Batanes - Nature/Ecotourism and Culture Tourism Cagayan – Nature/Sun and Beach/Marine Sports/ Culture Tourism Isabela - Nature/Culture/Marine Sports Tourism Quirino - Nature/Sports/Culture Tourism Nueva Vizcaya – Nature and Culture Tourism	2015	5	5	5	5	5	5	5	30	Accomplishment Report	DOT			
	Number of visits to cultural institutions, sites and events increased	2016		2	3	3	-	-	-	8	Accomplishment Report	DOT and concerned LGUs	LGUS support the objective of the activity		

**Notes:**

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**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 7: PROMOTING PHILIPPINE CULTURE AND VALUES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk			
		Year	Value	2017	2018	2019	2020	2021	2022								
Aggregate Outputs																	
	Cultural information database readily available	2016		3 Pilot LGUs	4	4	4	-	-	12	Accomplishment Report	DOT and concerned LGUs		DOT-RO2 support the objective of the activity			
	No. of PR works, Advisories, Reception	2016	12	12	12	12	12	12	12	72		DOT					
	Production and distribution of	2016	3	3	3	3	3	3	3	18		DOT					
	Participation in cultural activities and sites -forms, festivals and events increased	2016	8 MLGUs	10 MLGUs	15 MLGUs	TBD	TBD	TBD	TBD	TBD		DOT/DepEd and concerned LGUs		DOT- RO2/ DepEd/ concerned LGUs support the objective of the activity			
	Number of festivals and special events in promoting cultural tourism showcased																
	a. Festivals	2016	9	9	9	9	9	9	9	9	Accomplishment Report	DOT/concerned LGUs		LGUs support the objective of the activity			
		2016	15	20	22	22	30	30	30	30		PLGU (N. Vizcaya)					
	b. Special Events	2016	5	5	5	5	5	5	5	5		DOT					
	Increased number of visitors in local museums	2016	225,621	5%	5%	5%	5%	5%	5%	30%		DOT		DOT supports the objective of the activity			
	Cultural centers established	-	-	-	-	-	-	-	1	1		DOT					
		-	-	-	-	1	-	-	-	1		NCCA					
	Sub-chapter Outcome 2.2																
	Advance culture-sensitive governance	Increased number of local ordinances or issuances that promote cultural tourism															
Orientation/formulation of LGUs local tourism development plan – RA 9593/ NTDP		2016	2	2	4	10	TBD	TBD	TBD	TBD	Accomplishment Report	DILG/DOT		DOT/DILG prioritizes this activity			
Increased percentage of LGUs with IPMRs (Indigenous People mandatory Representation		2016	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	NCIP data	NCIP		NCIP-R2 prioritizes this activity			
Number of awareness and sensitivity campaign programs on the rights of PWD, indigenous persons, women, youth and children increased		2016	-	-	1	2	3	4	5	15	NCCA Reports	NCIP/NCCA		NCCA prioritizes this activity			
Assessment of status of cultural properties		2016	-	-	2	5	8	11	14	40	NCCA Reports	NCIP/NCCA					
Sub-chapter Outcome 2.3																	
Advanced "Pagkamalikha" values of creative excellence	Increased number of creative original works promoted	2016	2 (individual activity)	2	4	5	TBD	TBD	TBD	TBD	Accomplishment Report	PLGU (N. Vizcaya)	LGUs support the objective of the activity				
Aggregate Outputs																	
	Conduct of training workshops for the enhancement of festivals, customs and traditions - Festival Management, Kulinarya community based tourism workshop, etc																
	DOT	2016	2	2	2	2	2	2	2	12	Accomplishment Report	DOT		Concerned agencies and LGUs support the objective of the activity			
	NCCA	2016	2		1	3	5	7	9	25		NCCA					
	Number of beneficiaries (LGUs) of local and international programs for cultural self- development	TBD	-	2	2	2	TBD	TBD	TBD	TBD		DOT/CHED /DepEd and concerned LGUs					
	Number of communities assisted to enhance their traditional crafts and creative products	2016	1	1	2	2	BD	TBD	TBD	TBD		DTI and concerned LGUs					
	Increased number of continuing education programs for artists/cultural workers	2016	1	1	2	4	4	TBD	TBD	TBD		DepEd/ concerned					
		2016	1		1	3	5		9	25		NCCA					
	Number of regional arts academies and schools implementing special programs in the arts increased	2016	-	-	TBD	1	TBD	2	TBD	TBD	DepEd/NCCA Reports	DepEd/ NCCA					
	Recognition of creative and artistic artworks (awards given)	2016	TBD	TBD	20	15	20	25	30	30 (new awards per year)	DepEd/NCCA Reports	DepEd/ NCCA					

## **CHAPTER 8: Expanding Economic Opportunities in Agriculture, Forestry and Fisheries**

For the region's agriculture sector to be able to contribute in reducing inequality in economic opportunities in the next six-year period, the overall outcomes shall focus on: a) expanding economic opportunities of those who are currently engaged in producing Agri-Forestry and Fishery (AFF) products; and b) increasing access to economic opportunities by small farmers and fisherfolk who are typically subsistence producers and have limited market participation. The intermediate outcomes and corresponding strategies are likewise shown below:

### **Overall Outcome A: Economic opportunities in AFF expanded**

#### **Intermediate Outcome 1: AFF productivity within ecological limit improved**

- Strengthen AFF extension services.
- Provide rural infrastructures that are disaster and climate-resilient.
- Promote utilization of modern farm and fishing technology, machinery and equipment.
- Increase investments in research and development (R&D) and intensify application of mature technologies.
- Ensure consumers safety.

#### **Intermediate Outcome 2 : AFF-based enterprises increased**

- Create new markets and develop new products.
- Intensify capacity building and business advisory services.
- Strengthen linkage with agro-processing industry.

### **Overall Outcome B: Access to economic opportunities by small farmers and fisherfolk increased**

#### **Intermediate Outcome 1: Access to value-chains increased**

- Provide and improve connectivity of production areas to economic centers;
- Capacitate farmers and fisherfolk on value-adding activities; and
- Provide support to affected rice farmers.

#### **Intermediate Outcome 2: Access to technology increased**

- Encourage adoption of climate-responsive technologies, innovations and standards;and
- Provide postharvest and storage facilities, machineries and equipment.

#### **Intermediate Outcome 3: Access to financing increased**

- Increase availment by farmers and fisherfolk of agricultural insurance.
- Improve access to affordable and easy credit.

#### **Intermediate Outcome 4: Access to land and water resources increased and protected**

- Fast-track LAD completion

#### **Crosscutting Strategies**

- Strengthen coordination among implementing agencies, LGUs, private sectors and other stakeholders involved in the development of the sector; and
- Update and improve database of farmers and fisherfolks to ensure accurate targeting in agriculture programs and projects.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 8: EXPANDING ECONOMIC OPPORTUNITIES IN AGRICULTURE, FORESTRY, AND FISHERIES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Reducing inequality															
Chapter Outcome 1															
Economic opportunities in agriculture, forestry, and fisheries expanded	Growth of Gross Value Added (GVA) in Agriculture, Forestry and Fisheries (AFF) increased (% in real terms)	2016	-0.4	3.6-4.6	4.0-5.0	4.2-5.2	4.2-5.2	4.3-5.3	4.5-5.5	4.5-5.5	Regional Accounts - Gross Regional Domestic Product	DA RFO 2	PSA	Sound macroeconomic and reforms in food security policies instituted.	
	Growth in Value of Production increased (% in real terms)	2016	-3.35	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Regional Agricultural Production Accounts	DA RFO 2	PSA		
	Crops	2016	-4.93	increasing	increasing	increasing	increasing	increasing	increasing	increasing					
	Livestock	2016	4.5	increasing	increasing	increasing	increasing	increasing	increasing	increasing					
	Poultry	2016	1.9	increasing	increasing	increasing	increasing	increasing	increasing	increasing					
	Fisheries	2016	-5.15	increasing	increasing	increasing	increasing	increasing	increasing	increasing					
	Employment generated by the agriculture increased ('000s)	2016	759	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PSA Labor Force Survey (LFS)	DOLE RO 2 and DA RFO 2	PSA		
Sub-chapter Outcome 1.1															
Agriculture, forestry and fisheries productivity within ecological limit improved	Yield of major commodities increased (MT/ha, cumulative)														
	Palay	2016	4.19	4.25	4.55	4.66	4.7	4.75	4.79	4.79	PSA RO 2	DA RFO 2	PSA RO 2/ DA RFO 2		
	Corn	2016	4.05	4.42	4.6	4.73	4.86	4.99	5.13	5.13					
	White Corn	2016	2.32	2.85	2.49	2.57	2.65	2.73	2.81	2.81					
	Yellow Corn	2016	4.12	4.47	4.63	4.76	4.89	5.02	5.16	5.16					
	Banana	2016	13.63	14	14.5	15	16	17	18	18					
	Coconut (yield per bearing tree, in kg)	2015	53.8	55.79	57.84	59.98	62.19	64.49	66.87	66.87	PCA/PSA RO 2	PCA	DA RFO 2		
	Pineapple	2016	25.46	25	25.25	25.5	25.76	26.02	26.28	26.28	PSA RO 2	DA RFO 2	PSA RO 2/ DA RFO 2		
	Mango	2016	5.84	5	5.2	5.2	5.99	6.47	6.99	6.99					
	Sugarcane	2016	35.85	37.07	38.03	39.01	40.02	41.06	42.12	42.12		SRA			
	Cassava	2016	16.36	19	21	23	25	27	30	30					
	Coffee	2016	0.22	0.29	0.33	0.37	0.41	0.46	0.52	0.52					
	Cacao	2016	0.22	0.18	0.21	0.24	0.27	0.31	0.35	0.35					
	Volume of production increased (in heads, cumulative) <sup>e</sup>														
	Cattle	2016	184,173	185,831	187,503	189,191	190,893	192,611	194,345	194,345	PSA RO 2 RO 2	DA RFO 2	PSA RO 2		
	Goat	2016	115,533	116,573	117,622	118,681	119,749	120,826	121,914	121,914					
	Sheep	2016	9,864	12,134	14,923	18,356	22,577	27,770	34,157	34,157					

**Notes:**

a Actual data as of December 2016, or most recent available data. May not necessarily be year-end values.

b May either be the cumulative or incremental target value at the end of the Plan period.

c Agency accountable for delivering the outputs/achievement of outcomes.

d Lead agency responsible for reporting progress on indicator targets.

e The volume of production is used as a proxy indicator for productivity of livestock and poultry, fishery species and forest products due to data constraints

f No target since the impact of government intervention will only be evident after one year or more. Moreover, the conduct of the survey to measure the progress of the indicator is not done on an annual basis.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 8: EXPANDING ECONOMIC OPPORTUNITIES IN AGRICULTURE, FORESTRY, AND FISHERIES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Aggregate Outputs															
	Volume of production increased ('000 MT, cumulative) <sup>e</sup>														
	Hog	2016	71.36	68.85	69.4	69.96	70.52	71.08	71.65	71.65	PSA RO 2  PSA RO 2 Fisheries Statistics of the Philippines	DA RFO 2	PSA RO 2		
	Chicken	2016	60.64	59.35	59.4	59.5	59.55	59.95	60.43	60.43					
	Vegetables	2016		152.73	160.36	168.38	176.8	185.64	194.82	194.82					
	Tilapia	2016	12.32	13.06	13.84	14.67	15.55	16.49	17.48	18.52					
	Bangus	2016	0.492	0.510	0.530	0.551	0.573	0.596	0.620	0.620					
	Seaweeds	2016	0.197	0.207	0.217	0.228	0.239	0.251	0.264	0.264					
	Tiger prawns	2016	0.060	0.066	0.073	0.080	0.088	0.097	0.106	0.106					
	White Shrimp	2016	0.500	0.550	0.061	0.067	0.073	0.081	0.089	0.089					
	Oyster	2016	0.6430	0.656	0.669	0.682	0.696	0.710	0.724	0.724					
	Nipa Shingles (in '000 pc)	2016	570	570	208	209	210	211	212	213					
	Postharvest losses of key agricultural commodities reduced (% , cumulative)														
	Rice	2016	4.26	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	5	5				
	Corn	2016	2	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	N/A <sup>f</sup>	2.13	2.13				
Technical support services for staple crops provided	Program harvest area for staple crops provided with technical support services increased (ha) <sup>g</sup>														
	Palay	2016	556,884	587,097	631,694	648,508	563,237	658,133	663,014	663,014	DA RFO 2 Annual Report	DA RFO 2	DA RFO 2		
	Yellow corn	2016	398,023	403,247	422,248	423,248	424,248	425,248	426,248	426,248					
	White corn	2016	16,426	13,257	5,717	5,717	5,717	5,717	5,717	5,717					
Technical support services for fisheries provided	Number of fisherfolk provided with production support increased <sup>g</sup>	2016	8,911	9,794	9,960	9,960	9,960	9,960	9,960		DA-BFAR RO 2 Annual Report	DA-BFAR RO 2	DA-BFAR RO 2		
Agricultural and fisheries machinery, equipment and facilities distributed	Number of group beneficiaries provided with agricultural and fishery machineries and equipment increased	2016	232	301	877	1044					DA RFO 2, DA-BFAR RO2, Annual Reports	DA RFO 2, DA-BFAR RO 2	DA RFO 2, DA-BFAR RO 2	Increased awareness and interest for modern farm machineries and equipment.	
Production forest, for tree plantation and non-timber forest products increased	Area within the production forest, for tree plantation and non-timber forest products increased (ha, cumulative)														
	Tree plantation	2016	5,862	6,448	3,464	2,974	2,893	2,893	2,694	2,610	Philippine Forestry Statistics	DENR RO 2	DENR RO 2		
	Non-Timber Forest Products	2016	3,908	9,673	5,197	4,460	4,341	4,341	4,040	3,914					
Sub-chapter Outcome 1.2															
Agriculture, forestry and fishery-based enterprises increased															
Aggregate Outputs															
Technical support for AFF-enterprises provided	Number of AFF-enterprises with technical support increased <sup>g</sup>	2016			19						DA RFO 2	DA RFO 2	DA RFO 2		

**Notes:**  
<sup>e</sup> The volume of production is used as a proxy indicator for productivity of livestock and poultry, fishery species and forest products due to data constraints  
<sup>f</sup> No target since the impact of government intervention will only be evident after one year or more. Moreover, the conduct of the survey to measure the progress of the indicator is not done on an annual basis.

<sup>g</sup> Aggregate Output Indicators pertaining to program area, number of enterprises assisted and beneficiaries, either groups or individuals, may not be unique area or enterprises/beneficiaries, as an area/enterprise/group/individual may receive different and/or more than one machinery/equipment, technical support services and livelihood projects.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 8: EXPANDING ECONOMIC OPPORTUNITIES IN AGRICULTURE, FORESTRY, AND FISHERIES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Chapter Outcome 2															
Access to economic opportunities by small farmers and fisherfolk increased	Growth in labor productivity of farmers and fisherfolk increased (% in real terms)	2016	1.0	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PSA RO 2	DA RFO 2	PSA RO 2	Employment opportunities between sectors allow greater mobility.	
Sub-chapter Outcome 2.1															
Access to value-chains increased															
Aggregate Outputs															
AFF-based investment increased	Number of commodity promotion and investment forum conducted	2016			1						DA RFO 2	DA RFO 2	DA RFO 2		
Sub-chapter Outcome 2.2															
Access to technology increased	Adoption rate by small farmers to new technologies increased (%)	2016			10	10	10	10	10		DA RFO 2	DA RFO 2	DA RFO 2		
	Adoption rate by small fisherfolk to new technologies increased (%)	2016	50	50	60	60	60	60	60	60	DA-BFAR RO 2	DA-BFAR RO 2	DA-BFAR RO 2		
Aggregate Output															
AFF research, development, and extension (RD&E) activities conducted	Number of AFF researches conducted increased	2016	75	83	83	91	106	116	120	120	DA RFO 2	DA RFO 2	DA RFO 2		
	Number of new technologies increased	2016	5	10	20%	20%	20%	20%	20%		DA RFO 2	DA RFO 2	DA RFO 2		
	Number of technology forum increased	2016	5	5	4	4	4	4	4	25	DA RFO 2	DA RFO 2	DA RFO 2		
	Number of beneficiaries provided with extension services increased <sup>g</sup>	2016			5,375						DA RFO 2	DA RFO 2/ DA-ATI	DA RFO 2		
Sub-chapter Outcome 2.3															
Access to innovative financing increased	Share of small farmers and fisherfolk with agricultural insurance to total number of farmers and fisherfolk increased (% cumulative)	2016		10.3	14.4	18.5	22.6	26.7	30.8	30.8	DA-PCIC Annual Report	DA-PCIC	DA-PCIC	The premium subsidy for farmers and fisherfolk from the National Government were made available; The organizational capacity of PCIC to handle the expected increase in business were improved.	
Aggregate Output															
Institutional capacity building on innovative financing for small farmer/fisherfolk organizations provided	Number of ARBOs developed as Microfinance Provider/ARBOs provided with credit increased	2016	-	51	54	34	28	28	28	223					
	Batanes		-	3	1	-	1	1	-	6					
	Cagayan		-	10	6	7	6	6	6	41					
	Isabela		-	6	15	10	8	8	8	55					
	Nueva Vizcaya		-	22	22	7	4	4	4	63					
	Quirino		-	10	10	10	9	9	10	58					
Access to insurance and loan increased	Agricultural loan amount provided by government banks increased (in million PhP)	2016	3.5	0.889 (actual )	0.74 (LBP)	0.753 (LBP)	0.791 (LBP)	0.83 (LBP)	8.36 (LBP)		LBP	DBP and LBP	DBP and LBP	Government premium subsidy from the national government is made available.	
	Number of LGUs with established partnerships for the implementation of agricultural insurance to the total number of LGUs increased	2016	104	104	107	110	113	116	120		DA-PCIC	DA-PCIC	DA-PCIC	Original manpower capacity of PCIC is improved	

**Notes:**

<sup>g</sup> Aggregate Output Indicators pertaining to program area, number of enterprises assisted and beneficiaries, either groups or individuals, may not be unique area or enterprises/beneficiaries, as an area/enterprise/group/individual may receive different and/or more than one machinery/equipment, technical support services and livelihood projects.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 8: EXPANDING ECONOMIC OPPORTUNITIES IN AGRICULTURE, FORESTRY, AND FISHERIES**

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		Year	Value	2017	2018	2019	2020	2021	2022					
	Amount of insurance coverage increased (in Million Php)	2016	1,481.98	2,502.38	2,826.43	3,645.00	4,455.00	5,265.00	6,075.00		DA-PCIC	DA-PCIC	DA-PCIC	
	Number of farmers and fisherfolk insured increased	2016	133,442	166,672	188,856	216,051	247,163	282,754	323,471		DA-PCIC	DA-PCIC	DA-PCIC	
<b>Sub-chapter Outcome 2.4</b>														
Access of small farmers and fisherfolk to land and water resources increased and protected	Share of actual Agrarian Reform Beneficiaries (ARBs) with emancipation patent (EP)/ certificate of land ownership award (CLOA) to total potential ARBs increased (% , cumulative)	2016		4.55	2.33	1.89	1.61	1.48	1.01		DAR Annual Report	DAR	DAR	
	Share of registered small fisherfolk with preferential access to municipal waters over the total number of registered small fisherfolk increased (% , cumulative)	2016	40	46	48	501.61	50	50	50		Agency Annual Report	DA-BFAR	DA-BFAR	
<b>Aggregate Output</b>														
Land under CARP distributed	Area distributed under CARP increased (ha , cumulative)	2016		3,590	2,437	2,532	1,689	1,618	1,752	13,619	DAR OPTOOL	DAR RO 2	DAR RO 2	
	Number of ARBs with EP/CLOAs increased (cumulative)													
	Registered			5,112	1,767	1,439	1,222	1,125	769	11,434	DAR OPTOOL	DAR RO 2	DAR RO 2	
	Batanes									-				
	Cagayan			1,771	570	300	50	50	70	2,811				
	Isabela			2,147	867	906	1,006	909	438	6,273				
	Nueva Vizcaya			1,189	330	233	166	166	261	2,345				
	Quirino			5						5				
	Distributed			2,034	1,439	1,439	1,222	1,125	769	6,589				
	Batanes			-	2,034	1,439	1,222	1,125	769	6,589				
	Cagayan									-				
	Isabela				667	300	50	50	70	1,137				
	Nueva Vizcaya				867	906	1,006	909	438	4,126				
	Quirino				500	233	166	166	261	1,326				
	Number of ARBs with individual				1,030	1,922	2,204	2,525	7,947	15,628	DAR OPTOOL	DAR RO 2	DAR RO 2	
	Batanes			-	-	-	-	-	-	-				
	Cagayan			571	183	417	250	250	167	1,838				
	Isabela			500	166	875	1,709	2,125	7,630	13,005				
	Nueva Vizcaya			160	313	200	150	150	150	1,123				
	Quirino			523	368	430	95	-	-	1,416				
	Number of ARBs with Leasehold increased (cumulative)			232	244	192	184	194	83	1,129	DAR OPTOOL	DAR RO 2	DAR RO 2	
	Batanes									-				
	Cagayan			86	77	88	86	87	63	487				
	Isabela			114	107	45	42	51		359				
	Nueva Vizcaya			10	30	32	31	31	20	154				
	Quirino			22	30	27	25	25	-	129				

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 8: EXPANDING ECONOMIC OPPORTUNITIES IN AGRICULTURE, FORESTRY, AND FISHERIES**

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		Year	Value	2017	2018	2019	2020	2021	2022					
	Area of Collective CLOA with Area Survey Plan increased (cumulative, in			1,672	1,247	2,831	2,736	3,732	11,791	24,009	DAR OPTOOL	DAR RO 2	DAR RO 2	
	Batanes									-				
	Cagayan			372	171	500	300	300	200	1,843				
	Isabela			600	198	1,631	1,936	2,932	8,596	15,893				
	Nueva Vizcaya			500	785	700	500	500	2,995	5,980				
	Quirino			200	93					293				
	Area under Final Survey Documentation increased (cumulative, in has.)			3,811	1,055	1,635	1,511	1,513	13,773	23,299	DAR OPTOOL	DAR RO 2	DAR RO 2	
	Batanes									-				
	Cagayan			730	178	500	450	450	500	2,808				
	Isabela			2,824	823	1,001	1,000	1,003	13,248	19,899				
	Nueva Vizcaya			37	7	40	25	25	25	159				
	Quirino			220	47	94	36	35	-	432				



## **CHAPTER 9: Expanding Economic Opportunities in Industry and Services through *Trabaho* at *Negosyo***

By the end of this planning period, the industry and services sectors will help achieve the desired outcomes of reducing inequality through: *Trabaho* or economic opportunities in Industry and Services Sectors expanded; and *Negosyo* or Competitiveness, Innovativeness and Resilience increased.

### **Overall Outcome A: “*Trabaho*”: Economic opportunities in I&S expanded**

#### **Intermediate Outcome 1: Local and foreign investments increased**

- Strengthen value and supply chain linkages;
- Implement existing and develop new industry roadmaps.
- Accelerate provision and improving of infrastructure support system.
- Develop and market diversified tourism products.

#### **Intermediate Outcome 2: Competitiveness, innovativeness and resilience increased**

- Intensify efforts to capacitate would-be entrepreneurs and service providers;
- Encourage innovation and adoption of new technologies;
- Provide and improve/rehabilitate; and
- Streamline and harmonize procedures.

#### **Intermediate Outcome 3: Market access improved**

- Increase competitiveness of products and services; and
- Strengthen partnership and linkages to prospective markets.

#### **Intermediate Outcome 4: Consumer access to safe and quality goods and services ensured.**

- Promote consumer protection.

### **Overall Outcome B: Increase access to economic opportunities for MSMEs.**

#### **Intermediate Outcome 1: Access to production networks improved**

- Actively tap MSMEs and cooperatives in trade fairs and other market development activities;

#### **Intermediate Outcome 2: Access to finance improved**

- Streamline and simplify procedures in loan processing.

#### **Intermediate Outcome 3: Productivity, efficiency and resilience improved**

- Promote entrepreneurial culture and competency to develop MSMEs.
- Expand programs that promote innovative, appropriate and cost-effective technologies
- Promote consumer welfare

#### **Crosscutting Strategies**

- Strengthen coordination among implementing agencies, LGUs, private sectors and other stakeholders involved in the development of the sector; and
- Update and improve database related to I&S sector (e.g., investment data, tourism data, etc.) to ensure accurate reporting of the sector status and targeting in programs and projects related to the sector.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 9: EXPANDING ECONOMIC OPPORTUNITIES IN INDUSTRY AND SERVICES THROUGH TRABAHO AND NEGOSYO**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Societal Goal														
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy														
Intermediate Goal														
Reducing inequality														
Chapter Outcome 1														
Economic opportunities in industry and services (I&S) expanded	Gross Value Added (GVA) growth rate in the industry sector improved (% in real terms) <sup>e</sup>	2016	12.9	5.5-6.5	7.2-8.2	7.4-8.4	7.5-8.5	7.6-8.6	7.7-8.7	7.7-8.7	PSA Gross Regional Domestic Product (GRDP)	DTI RO 2 RO 2	PSA RO 2	
	Manufacturing GVA as a proportion of GDP increased (%)	2016	17	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PSA Gross Regional Domestic Product (GRDP)	DTI RO 2 RO 2	PSA RO 2	
	GVA growth rate in the services sector improved (% in real terms)e	2016	5.3	6.0-7.0	6.3-7.3	7.08-8.0	7.2-8.2	7.3-8.3	7.5-8.5	7.5-8.5	PSA Gross Regional Domestic Product (GRDP)	DTI RO 2 RO 2	PSA RO 2	
	Employment generated by the industry increased ('000s) <sup>f</sup>	2016	149	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PSA Labor Force Survey (LFS)	DOLE RO 2 and other RLAs	PSA RO 2	
	Manufacturing employment as a proportion to total employment increased (%)	2016	2.8	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PSA Labor Force Survey (LFS)	DOLE RO 2 and other RLAs	PSA RO 2	
	Employment generated from the services sector increased ('000s) <sup>f</sup>	2016	579	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PSA Labor Force Survey (LFS)	DOLE RO 2 and other RLAs	PSA RO 2	
Aggregate Outputs														
Visitor Arrivals increased	Tourist										DOT RO 2 Accomplishment Report	DOT RO 2	DOT RO 2	
	Domestic	2016	569,445	774,171	626,389	689,028	757,929	833,721	917,093	917,093				
	Foreign	2016	263,391	293,426	289,768	318,744	350,618	385,679	424,246	424,246				
	Same Day Visitor													
	Domestic	2016	1,800,169	1,425,798	1,980,185	1,980,185	2,178,203	2,396,023	2,635,625	2,635,625				
	Foreign	2016	10,563	4,499	11,619	12,780	14,058	15,463	17,009	17,009				
Sub-Chapter Outcome 1.1														
Local and foreign investments increased														
Aggregate Outputs														
	Capital investments in CEZA increased (in Million Php)	2016	14,030	7,015	7,878.03	8,271.93	8,685.53	9,119.81	9,575.80	9,575.80	CEZA Accomplishment Report	CEZA	CEZA	Expected decline for the year 2017 in anticipation of the non-renewal of registration of the remaining twenty-some CEZA locators engaged in I-Gaming due to recently signed EO 31
	Number of CEZA locators increased (cumulative)	2016	207	62	83	87	91	96	101	101	CEZA Accomplishment Report	CEZA	CEZA	
	Business Name Registration investments increased (in Million Php)	2016	4,523	4642	increasing	increasing	increasing	increasing	increasing	increasing	DTI Accomplishment Report	DTI RO 2	DTI RO 2	
	Number of MSMEs assisted in the priority industries increased (cumulative)	2016	-	1,380	1,495	1,610	1,725	1,840	1,955	1,955	DTI Accomplishment Report	DTI RO 2	DTI RO 2	
	Number of investors assisted increased (cumulative)	2016	1,065	955	70	70	70	75	75	75	DTI Accomplishment Report	DTI RO 2	DTI RO 2	
	Number of exporters assisted increased (cumulative)	2016	38	40	40	40	40	45	45	45	DTI Accomplishment Report	DTI RO 2	DTI RO 2	

**Notes:**

a Actual data as of December 2016, or most recent available data. May not necessarily be year-end values.

b May either be the cumulative or incremental target value at the end of the Plan period.

c Agency accountable for delivering the outputs/achievement of outcomes.

d Lead agency responsible for reporting progress on indicator targets.

e GVA at constant 2000 prices. Targets approved by the RDC.

f Employment generated refers to additional employment generated from the preceding year. Baseline data generated using the average of Q1-Q3 estimates (excluding data for Leyte) for both 2014 and 2015.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 9: EXPANDING ECONOMIC OPPORTUNITIES IN INDUSTRY AND SERVICES THROUGH TRABAHO AND NEGOSYO**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Sub-chapter Outcome 1.2															
	Score of provinces in Region 02 out of the total number of participating provinces improved														
	Batanes	2016	15.55	27.71	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing	Cities and Municipalities Competitiveness Index (CMCI) Report	LGUs	DTI RO 2		
	Cagayan	2016	23.08	33.79	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing		LGUs	DTI RO 2		
	Isabela	2016	25.90	33.92	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing		LGUs	DTI RO 2		
	Nueva Vizcaya	2016	19.84	33.31	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing		LGUs	DTI RO 2		
	Quirino	2016	22.02	35.56	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing		LGUs	DTI RO 2		
Aggregate Outputs															
MSMEs assisted and facilitated	Number of MSMEs assisted increased (cumulative)	2016	10,486	10,450	10,500	10,600	10,700	10,800	10,900	10,900	DTI RO 2 Accomplishment Report	DTI RO 2	DTI RO 2		
	Number of mentees capacitated increased (cumulative)	2016	-	200	200	200	200	200	200	200		DTI RO 2	DTI RO 2		
	Number of MSMEs doing e-commerce increased (cumulative)	2016	-	25	227	340	567	567	567	567		DTI RO 2	DTI RO 2		
	Number of technical assistance provided to stakeholders/LGUs on tourism industry development increased (cumulative)	2016	5	5	5	5	5	5	5	30	DOT RO 2 Accomplishment Report	DOT RO 2	DOT RO 2		
	Number of inspection on tourism enterprises conducted increased (cumulative)	2016	300	463	363	399	439	483	531	531		DOT RO 2	DOT RO 2		
	Number of accreditation applications acted upon increased (cumulative)	2016	300	463	363	399	439	483	531	531		DOT RO 2	DOT RO 2		
	Number of products developed and product partners engaged increased (incremental)	2016	5	5	5	5	5	5	5	30		DOT RO 2	DOT RO 2		
Sub-chapter Outcome 1.3															
Market access improved (see Chapter 15 Sub-sector Outcome on "Strategic external trade policy regime achieved" )															
Sub-chapter Outcome 1.4															
Consumer access to safe and quality goods and services ensured	Percentage of violating firms penalized and compliant increased (%)	2016	-	90	90	90	90	90	90	90	DTI RO 2 Accomplishment Report	DTI RO 2	DTI RO 2		
	Consumer complaints resolution rate increased (%)	2016	-	85	93	93	93	93	93	93		DTI RO 2	DTI RO 2		
Aggregate Outputs															
	Number of firms monitored (Price Trending) increased	2016	-	120	120	120	120	120	120	120	DTI RO 2 Accomplishment Report	DTI RO 2	DTI RO 2		
	Number of processed applications for permits, accreditations, licenses, or authorities increased	2016	-	407	90	96	96	96	96	96		DTI RO 2	DTI RO 2		
Chapter Outcome 2															
Increased access to economic opportunities in I&S for micro, small and medium enterprises (MSMEs), cooperatives and overseas Filipinos															
Sub-Chapter Outcome 2.1															
Access to production networks improved															
Aggregate Outputs															
	Number of trade fairs (total firms) conducted/participated increased (cumulative)	2016	25	25	27	30	32	35	40	40	DTI RO 2 Accomplishment Report	DTI RO 2	DTI RO 2		
	Number of Go Negosyo centers	2016	40	56	70	80	93	93	93	93		DTI RO 2	DTI RO 2		
	Established	2016	-	48	14	10	13	-	-	-		DTI RO 2	DTI RO 2		
	Maintained	2016	-	8	56	70	80	93	93	93		DTI RO 2	DTI RO 2		
		Number of trade development/ trade support activities conducted/ participated increased	2016	-	TBD	TBD	TBD	TBD	TBD	TBD	TBD	DOT RO 2 Accomplishment Report	DOT RO 2	DOT RO 2	

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 9: EXPANDING ECONOMIC OPPORTUNITIES IN INDUSTRY AND SERVICES THROUGH TRABAHO AND NEGOSYO**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Sub-chapter Outcome 2.2														
Access to finance improved	Prescribed percent of allocation for micro and small enterprises to total	2016		TBD	TBD	TBD	TBD	TBD	TBD	TBD				
	Prescribed percent of allocation for medium enterprises attained (%)s	2016		TBD	TBD	TBD	TBD	TBD	TBD	TBD				
Sub-chapter Outcome 2.3														
Productivity, efficiency and resilience improved	MSMEs sales increased (Million PhP)	2016	-	230	236	240	242	245	250	250	DTI RO 2 Accomplishment Report	DTI RO 2	DTI RO 2	
Aggregate Output														
	Number of shared service facilities in operation increased	2016	-	100	100	100	100	100	100	100	DTI RO 2 Accomplishment Report	DTI RO 2	DTI RO 2	
	Number of prototypes developed Increased (cumulative)	2016	-	5	150	155	160	165	170	170		DTI RO 2	DTI RO 2	
	Number of Small Enterprise Technology Upgrading Program beneficiaries increased	2016		TBD	TBD	TBD	TBD	TBD	TBD	TBD	DOST RO 2 Accomplishment Report	DOST RO 2	DOST RO 2	
	Number testing and calibration services rendered increased	2016	3,394	TBD	TBD	TBD	TBD	TBD	TBD	TBD		DOST RO 2	DOST RO 2	

## **CHAPTER 10: Accelerating Human Capital Development**

Increased human capital and expansion of opportunities and choices is rooted in the region's human development strategies particularly on equal access to better health, knowledge and skills, health and education services. Under this Plan component, three sector outcomes have been identified namely: a) Lifelong learning opportunities for all ensured; b) Income-earning ability increased; and c) Health and nutrition for all enhanced. The strategies under each outcome are shown below:

### **Overall Outcome A: Lifelong Learning Opportunities for All Ensured**

- Pursue full implementation of the K to 12 program;
- Boost participation in basic and enrollment in higher and technical education;
- Increase employability through job-skills matching; and
- Enhance Quality Assurance in technical vocational and higher Education.

### **Overall Outcome B: Income-earning ability increased**

- Capacity development of workers in the agriculture sector;
- Strengthen employment facilitation services;
- Strengthen and expand internship, apprenticeship and dual training programs that facilitate school-to-work transition;
- Implement programs that encourage women to participate in the labor market;
- Strengthen the implementation of the two-tiered wage system; and
- Ensure safety and health in the workplace.

### **Overall Outcome C: Health and nutrition for All enhanced**

- Attain universal health coverage and protection from financial risk;
- Access functional Service delivery network; and
- Protect from triple burden of disease.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 10: ACCELERATING HUMAN CAPITAL DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Reducing inequality															
Chapter Outcome															
Human Capital Development Accelerated															
Sub-chapter Outcome 1.1															
Nutrition and health for all improved	Life expectancy at birth increased (years)										Population Projections and Vital Statistics	DOH	PSA	Increased GDP per capita	
	Male	2015	69.6	N/A	N/A	N/A	N/A	N/A	71.3	71.3				Reduction of poverty	
	Female	2015	75.9	N/A	N/A	N/A	N/A	N/A	77.5	77.5					
	Total fertility rate decreased (total number of births per woman aged 15-49)	2013	3.2	N/A	N/A	N/A	N/A	N/A	2.1	2.1	NDHS	DOH/POPCOM	PSA	Rising levels of education	
Sub-chapter Outcome 1.1.1															
Care at all life stages guaranteed	Maternal mortality ratio decreased (number of deaths per 100,000 live births)	2016	35.86	<52	<52	51	<51	<51	50	50	FHSIS-DOH	DOH	PSA	Families and communities practice healthy lifestyle.	
	Neonatal mortality rate decreased (number of deaths per 1,000 live births)	2016	2.71			5			4	4	NDHS	DOH	PSA	LGUs are committed and have strengthened capacities to deliver basic services and supplies.	
	Infant mortality rate decreased (number of deaths per 1,000 live births)	2016	4.84	4.48	4.45	4.42	4.39	4.36	4.33	4.33	FHSIS-DOH	DOH	PSA	Health professionals prefer to work in the country.	
	Under-5 mortality rate decreased (number of deaths per 1,000 live births)	2016	6.78	5.78	5.61	5.46	5.31	5.16	5.02	5.02		DOH	PSA		
	Premature mortality attributed to cardiovascular disease, cancer, diabetes, and chronic respiratory diseases decreased (number of deaths per 100,000 population) <sup>e</sup>	2016	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	CRVS	DOH	PSA	Country continues to improve economic performance.	
	Death rate due to road traffic accidents decreased (number of deaths per 100,000 population)	2016	20.58	20	<34	<34	<34	<34	<34	<34		DOH	PSA	Cooperation and alignment of health initiatives among all stakeholders	
	Proportion of households meeting the 100% recommended energy intake increased (%)	2015	35.1	N/A	N/A	N/A	N/A	N/A	40	40	NNS	NNC	DOST-FNRI	Supportive policy environment in legislature and judiciary issued	
	Prevalence of stunting among children under 5 decreased (%)	2015	29	N/A	N/A	28	N/A	N/A	18.4	18.4		NNC	DOST-FNRI	New political leadership at all levels will support health programs	
	Prevalence of wasting among children under 5 decreased (%)	2015	7.2	N/A	N/A	6.7	N/A	N/A	4.9	4.9		NNC	DOST-FNRI		
	Prevalence of overweight among children under 5 decreased (%)	2015	3.8	N/A	N/A	≤3.8	N/A	N/A	≤3.7	≤3.7		NNC	DOST-FNRI	Emergence of new diseases will be controlled.	
	Adolescent birth rate (aged 15-19 years) decreased (number of births per 1,000 women in that age group)	2013	54/1,000	N/A	N/A	47	N/A	N/A	40/1,000	40/1,000	NDHS	DOH/POPCOM	PSA	Public health services cope with rapid urbanization and increasing internal migration.	
	Tuberculosis incidence decreased (per 100,000 population)	2016	322	310	298	286	274	262	250	250	Program Data/ FHSIS-DOH	DOH	DOH		
	Malaria prevalence decreased (per 100,000 population)	2016	0.14	0	0	0	0	0	0	0		DOH	DOH		

**Notes:**

<sup>a</sup> Actual data as of December 2016, or most recent available data.

<sup>b</sup> May either be the cumulative or incremental target value at the end of the Plan period

<sup>c</sup> Agency accountable for delivering the outputs/outcome

<sup>d</sup> Lead agency responsible for reporting progress on indicator targets

<sup>e</sup> Per SDG, target is to reduce premature mortality rate by 1/3 by 2030

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 10: ACCELERATING HUMAN CAPITAL DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
	Zero Malaria Mortality Rate Sustained	2016	0	0	0	0	0	0	0	0	Program Data/ FHSIS-DOH	DOH	DOH		
	TB case detection rate increased (all forms, %)	2016	94	92.50	93	93.5	94	94.5	95	95		DOH	DOH		
	Number of newly diagnosed HIV cases decreased	2016		None	None	None	None	None	TBD <sup>f</sup>	TBD		DOH	DOH		
	HIV prevalence rate decreased (%)	2016	2.5	<1	<1	<1	<1	<1	<1	<1		DOH	DOH		
	Percentage of drug abuse cases who completed treatment increased	2011	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD		DOH	DOH		
	Proportion of households with access to safe water supply increased (%)	2016	84.46	88	90	92	94	95	96	96		DOH	DOH	*See also Chapter 19	
	Proportion of households with sanitary toilet facility increased (%)	2016	88.77	91	92.5	93	94	95	96	96		DOH	DOH		
	Sub-chapter Outcome 1.1.2														
Access through functional service delivery networks ensured	Proportion of births attended by skilled health personnel increased (%)	2016	95.65	90	92	94	96	98	99.0	99.0	NDHS	DOH	PSA		
	Proportion of women of reproductive age (15-49 yrs. old) with unmet need for modern family planning decreased (%)	2013	15.6	N/A	N/A	2%	N/A	N/A	13.6	13.6		DOH/POPCOM	PSA		
	Modern contraceptive prevalence rate increased (%)	2016	61.53	61	62	63	64	65	66	66		DOH/POPCOM	PSA		
	Sub-chapter Outcome 1.1.3														
Health financing sustained (See Chapter 11)															
Sub-chapter Outcome 1.2															
Lifelong learning opportunities for all ensured	Mean years of schooling increased <sup>g</sup>	2014	8.9	N/A	N/A	N/A	N/A	N/A	11.30	11.3	Human Development Report	Human Development	Human Development		
	Functional Literacy Rate increased (%)	2013	90.3	N/A	TBD	N/A	N/A	N/A	N/A	TBD	FLEMMS	PSA	PSA		
Sub-chapter Outcome 1.2.1															
Quality, accessible, relevant, and liberating basic education for all achieved	Net Enrolment Rate increased (%)														
	Kinder	SY 2015-2016	85.80	86.46	87.12	87.78	88.44	89.10	89.76	89.76	EBEIS	DepEd	DepEd		
	Boys		84.10	84.76	85.42	86.08	86.74	87.40	88.06	88.06					
	Girls		87.60	88.26	88.92	89.58	90.24	90.90	91.56	91.56		DepEd	DepEd		
	Elementary	SY 2015-2016	96.31	96.97	97.63	98.29	98.95	99.61	100.27	100.27					
	Boys		95.49	96.15	96.81	97.47	98.13	98.79	99.45	99.45					
	Girls		97.19	97.85	98.51	99.17	99.83	100.49	101.15	101.15					
	Junior High School	SY 2015-2016	70.21	70.87	71.53	72.19	72.85	73.51	74.17	74.17		DepEd	DepEd		
	Male		65.72	66.38	67.04	67.70	68.36	69.02	69.69	69.69					
	Female		75.01	75.67	76.33	76.99	77.65	78.31	78.97	78.97		DepEd	DepEd		
	Senior High School	SY 2017-2018	Not yet available	TBD	TBD	TBD	TBD	TBD	TBD	TBD					
	Male											EBEIS	DepEd	DepEd	
	Female														
	Completion Rate increased (%)														
	Elementary	SY 2015-2016	88.31	91.29	92.43	93.57	94.71	95.86	97.01	97.01	DepEd		DepEd		
	Boys		89.89	92.20	91.51	92.63	94.51	94.90	96.82	96.82					
	Girls		88.11	90.37	93.35	94.51	95.65	96.81	97.08	97.98	DepEd	DepEd			
	Junior High School	SY 2015-2016	81.99	82.53	83.06	83.60	84.13	84.67	85.21	85.21					
	Male		74.23	74.89	75.55	76.21	76.87	77.53	78.19	78.19					
	Female		82.80	83.35	83.89	84.44	84.97	85.52	86.06	86.06					
	Senior High School	SY 2017-2018	Not yet available	TBD	TBD	TBD	TBD	TBD	TBD	TBD	DepEd	DepEd			
	Male														
	Female														

**Notes:**

<sup>f</sup> Reverse trend

<sup>g</sup> Average number of years of education received by people ages 25 years and older, converted from education attainment levels using official durations of each level (Source: Human Development Report)

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 10: ACCELERATING HUMAN CAPITAL DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
	Proportion of students performing at moving towards mastery, closely approximating mastery or mastered increased (%)													
	Elementary	2015	27.76	32.71	37.65	42.60	47.54	52.49	57.43	57.43	EBEIS	DepEd	DepEd	
	Junior High School	2015	76.80	77.16	79.19	81.22	83.25	85.28	87.32	87.32		DepEd	DepEd	
	Senior High School	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD		DepEd	DepEd	
	Proportion of students at low mastery reduced (%)													
	Junior High School	2015	12.79	11.50	10.75	9.00	7.74	4.72	1.71	1.71	EBEIS	DepEd	DepEd	
	Senior High School	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD		DepEd	DepEd	
	Achievement Rate (NAT MPS) increased (%)													
	Elementary	SY 2015-2016	72.70	73.36	75.34	76.17	77	77.84	78.67	78.67	EBEIS	DepEd	DepEd	
	Junior High school	SY 2015-2016	49.36	50.02	59.25	62.40	65.54	68.69	71.83	71.83		DepEd	DepEd	
Sub-chapter Outcome 1.2.2														
Quality of higher education and technical education and research for equity and global competitiveness improved	Government expenditure for higher education research, development, and innovation as a percentage of GDP increased (%)	2016	Php61.7 Million	The government expenditure for higher education research, development and innovation varies every year since the grants awarded to HEIs are dependent on the proposals submitted and approved for funding						GAA (based on K to12 DARE & IDIG grants given to HEIs of Region 2)		CHED	CHED	Sufficient budget allocation to concerned agencies  Improved participation of LGUs and other stakeholders.
	Certification rate of TVET graduates increased (%) <sup>h</sup>	2016	85	85	86	86	86	86	87	87.0	MIS	TESDA	TESDA	
Aggregate Outputs														
	Percentage of students awarded scholarships, grants, and other financial assistance increased (%)	2016	5,355	The number of slots awarded to CHEDR02 every year is determined by CHEDCO, hence, the targeted slot for the calendar year 2017-2022 cannot be projected						Higher Education Data		CHED	CHED	
	Percentage of tertiary graduates in science, engineering, manufacturing and construction increased (%)	2016	17	10	5	2	1	-	-		Global Innovation Index	CHED	CHED	
	Number of Expanded Tertiary Education Equivalency and Accreditation Program graduates increased	2016	231	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Higher Education Data	CHED	CHED	
	Number of curricula and programs evaluated based on revised policies, standards and guidelines and outcome based education increased	2016	181	223	275	340	355	370	385	385	PSG	CHED	CHED	
	Number of graduate education graduates (MA/PhD) engaged in original research of creative work increased	2016	320	326	332	338	345	352	359	359	Higher Education Data	CHED	CHED	
	Number of HEIs engaged in local and global partnerships and collaborations increased (cumulative)	2016	10	11	12	13	14	15	17	17	MOAs/MOUs	CHED	CHED	

**Notes:**

<sup>h</sup> TESDA informed that the certification rate was conservatively targeted due to: (a) average growth rate from 1995-2016 is 8 percent, while an annual average increase of 1.33 percent was observed during the previous PDP 2011-2016; (b) persons undertaking assessment and certification do not only come from TVET programs but also include those that were assessed following the principle of recognition of prior learning; and (c) a number of new training regulations with the new competency assessment tools are being promulgated in 2017



**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 10: ACCELERATING HUMAN CAPITAL DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Sub-chapter Outcome 1.3														
Income-earning ability increased	Percentage of youth Not in Education, Employment or Training (NEET) decreased (% , cumulative)	2015	(No regional data provided by DOLE R02 as of writing)								Labor Force Survey, Philippine Statistics Authority	DOLE, DepEd, CHED, TESDA	DOLE	
Aggregate Outputs														
	Youth placed in employment, education or training increased													
	Special Program for Employment of Students (SPES)-incremental	2016	17,253	14,345	10,590	11,120	11,675	12,260	12,872	72,862	DOLE Reports	DOLE	DOLE	
	Government Internship Program (GIP)-incremental	2016	2,679	1,272	989	1,040	1,092	1,147	1,204	6,744	DOLE Reports	DOLE	DOLE	
	Jobstart-incremental	Started in Dec.,2017 in R02	310	100	100	100	100	100	810	DOLE Reports	DOLE	DOLE		
	Private Education Student Financial Assistance (PESFA) Program-cumulative	2016	699	369	442	442	530	636	763	763	TESDA Reports	TESDA	TESDA	
	Training for Work Scholarship Program (TWSP)	2016	4,539	6,098	Slots are approved by Central Office based on Scholarship Allocation Plans (SAP) submitted by TVIs and based on the TVIs absorptive capacity						TESDA Reports	TESDA	TESDA	
	Employment Facilitation (EF) Track <sup>1</sup>	2016	1,656	12,165	17,852	TBD	TBD	TBD	TBD	TBD	DSWD - EF	DSWD-SLP	DSWD-SLP	Centrally-managed fund
Expanded Students' Grant-in-aid Program for Poverty Alleviation (ESGPPA), PAMANA and scholarship program for dependent children of sugarcane industry	2016	ESGPPA-1,146 PAMANA-6 SIW-14	ESGPPA-same number of slots allocated yearly, however, grantees who dropped/stopped schooling will be replaced by new grantees  PAMANA and SIW – number of slots is determined by CHEDCO, hence target number of slots cannot be determined						CHED	CHED	CHED			
Sub-chapter Outcome 1.3.1														
Employability improved														
Aggregate Outputs														
	Number of higher education policies formulated to produce work-ready higher education graduates increased	2016	63	Targets determined by CHEDCO						CHED PSGs	CHED	CHED		
	Number of female students enrolled in advanced education program increased-	2016	8,020	8,180	8,344	8,511	8,596	8,682	8,769	8,769	CHED Higher Education Data	CHED	CHED	
	Jobseekers referred for placement through the Public Employment Service	2016	51,469	37,729	22,645	23,777	24,966	26,215	27,525	162,857	DOLE Reports	DOLE	DOLE	
	Individuals reached through the Labor Market Information	2016	133,490	116,822	93,335	98,000	102,900	108,045	113,447	632,549		DOLE	DOLE	
Sub-chapter Outcome 1.3.2														
Productivity improved	Percentage increase in labor productivity in industry sector (%)	2016	(9.4)	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Labor Productivity Statistics	DTI, DOLE	PSA	
	Percentage increase in labor productivity in service sector (%)	2015	4.6	increasing	increasing	increasing	increasing	increasing	increasing	increasing		DTI, DOLE	PSA	

**Notes:**

<sup>i</sup> For the output indicator on the employment-facilitation (EF) track, target participants are from Listahanan-identified poor households, particularly Pantawid pamilya beneficiaries. They are not limited to the Youth, but must be at least 18 years old at the start of the project to participate in the EF track

## CHAPTER 11: Reducing Vulnerability of Individuals and Families

The Cagayan Valley Regional Development Plan 2017-2022 will endeavor to achieve universal coverage of social protection programs to enable individual and families, particularly those vulnerable, to deal and cope with risks. The risks that the individuals and families will face are expected to vary across their life cycles. Thus, the overall outcome under this Plan component shall be the attainment of a universal and social protection for all. The strategies are likewise enumerated under this plan outcome.

### **Overall Outcome: Universal and Social Protection for All Achieved**

- Close monitoring of the level of well-being of 4P beneficiaries.
- Expansion of coverage of the Social Pension Program.
- Improve Social protection Services for OFs.
- Expedite awarding/titling and registration of approved Certificate of Ancestral Domain Titles.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 11: REDUCING VULNERABILITY OF INDIVIDUALS AND FAMILIES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Reducing inequality															
Chapter Outcome 1															
Vulnerability of individuals and families reduced															
Sub-chapter Outcome 1															
Universal and transformative social protection for all achieved	Percentage of out-of-pocket expenditure over total health expenditure decreased (%)	2016	55.7	52.3	48.8	45.4	41.9	38.5	35	35	National Health Accounts	PhilHealth/ DOH	PSA/DOH		
	National Health Insurance Program availment rate increased (%) <sup>e</sup>	Not a target for CY 2016	Establish baseline	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Admin data	PhilHealth	PhilHealth		
	Number of children aged 5-17 years removed in child labor increased	2016	0	657	4,379	6,570	7,666	5,257	3,066	27,579	Labor Force Survey; 2011 Survey on Children	DOLE	DOLE	There is an effective coordination among stakeholders	
	Zero deaths due to natural and human-induced disasters achieved	2016	431	0	0	0	0	0	0	0	NDRRMC Operations Center	RDRRMC/ PNP	RDRRMC Operations Center	Populace discount the advise of an incoming disaster.	
	Zero missing persons due to natural and human-induced disasters achieved	2016	47	0	0	0	0	0	0	0		RDRRMC/ PNP	RDRRMC Operations Center	The magnitude of the actual disaster is stronger than what was forecasted.	
Aggregate Outputs															
	Percentage of population covered by PhilHealth insurance (cumulative)	2016	91	90	95	100	100	100	100	100	PhilHealth database	PhilHealth	PhilHealth	There is an effective coordination among local governments, DSWD, and PhilHealth. Adequate local funding and high priority given by LGUs.	
	Number of poor senior citizens covered by social pension <sup>f</sup> (cumulative)	2016	80,634	218,659	192,661	246,413	292,277	346,678	411,205	411,205	DSWD Admin data	DSWD; DILG/LGUs	DSWD		
	Number of Conditional Cash Transfer (CCT) beneficiaries covered (HHs)	2016	103,203	103,178	103,019	103,019	TBD	TBD	TBD	TBD	Pantawid Pamilya Information System	DSWD	DSWD		
	Percentage of economically active population contributing to SSS pension scheme increased (cumulative) <sup>g</sup>	2016	33.9	36	38	39	41	42	44	44	SSS Admin data, LFS	SSS	SSS		
	Percentage of employed in the government covered by GSIS <sup>h</sup>	2016	100	100	100	100	100	100	100	100	GSIS database, CSC Admin data	GSIS	GSIS		
	Number of OFW membership to OWWA increased (cumulative)	2016	11,224	6,300	10,000	12,000	14,000	16,000	18,000	76,300	OWWA Accomplishment Report/ Annual Report	OWWA	OWWA		
	Number of child laborers/children at risk to become child labor assisted	2016	124	174	130	144	150	159	167	924	Admin data	DOLE	DOLE		
	Number of families with child laborers provided with livelihood assistance	2016	124	174	130	144	150	159	167	924		DOLE	DOLE		
	Percentage of families affected by natural and human-induced calamities provided with relief assistance	2016	100 (165,878 families)	100	100	100	100	100	100	100	Annual DSWD Report	DSWD	DSWD		

**Notes:**

a Actual data based on the most recent available data.

b May either be the cumulative or incremental target value at the end of the Plan period

c Agency accountable for delivering the outputs/achievement of outcomes

d Lead agency responsible for reporting progress on indicator targets

e NHIP availment rate is defined as the total number of unique members who availed of the benefits of the program (whether in-patient or outpatient) as a percentage of total eligible members in a particular period.

f The program covers all NHTS PR identified poor and those duly assessed by the MSWDs and OSCAs ages 60 years old and above as eligible beneficiaries of the program; indigent senior citizens needed to be covered will expand due to proposed amendment to revise definition of "indigent senior citizens"

g In the absence of labor force projections in the PSA, proportions were estimated based on the average percentage point increase of actual proportions for the last 4 years preceding the projection year (i.e., 1.5 percentage points per year).

h GSIS coverage is limited to the IRR of RA 8291

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 11: REDUCING VULNERABILITY OF INDIVIDUALS AND FAMILIES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
	Percentage of emergency shelter assistance provided (%)	2016	100	100	100	100	100	100	100	100	Annual DSWD Report	DSWD	DSWD	
	Percentage of victims needing emergency shelter assistance provided with support (%)	2016	100 (26,660 families)	100	100	100	100	100	100	100		DSWD	DSWD	
	All emergency loan applications by calamity-affected GSIS members and pensioners granted (%) <sup>i</sup>	2016	100	100	100	100	100	100	100	100	GSIS database	GSIS	GSIS	

**Notes:**  
<sup>i</sup> Emergency loans granted to those members and pensioners who reside in areas declared under a State of Calamity

## **CHAPTER 12: Building Safe and Secure Communities**

The government recognizes the importance of building and expanding people's access to safe and secure shelter in well-planned communities. Moreover, housing and urban development become increasingly important as the economy grows, attracting people to urban areas where opportunities are. If not managed well, urbanization can pose risks to health, life, and property and compound natural hazards that cause disasters. Under this plan component, therefore, the overall outcome shall be "Access to Affordable, Adequate, Safe and Secure Shelter in Well-Planned Communities Provided". The corresponding strategies to ensure the realization of the set Plan outcome are likewise enumerated.

### **Overall Outcome: Access to Affordable, Adequate, Safe and Secure Shelter in Well-Planned Communities Provided**

- Recognized and formalized ancestral domains;
- Formulation of DRR-enhanced CLUP completed by all LGUs;
- Identification of resettlement areas and sites for socialized housing; and
- Local Shelter Plan Formulation.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 12: BUILDING SAFE AND SECURE COMMUNITIES**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Societal Goal														
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy														
Intermediate Goal														
Reducing inequality														
Chapter Outcome														
Access to affordable, adequate, safe, and secure shelter in well-planned communities expanded	Proportion of informal settlements or inadequate housing decreased (% cumulative)	2016	10	9	8.1	7.29	6.56	5.90	5.31	5.31	National Census of Population and Housing	NHA, SHFC, HDMF, HGC, DILG, LGUs	PSA	
Aggregate Outputs														
	Proportion of socialized housing targets to housing needs improved (%) (cumulative)	2016	8	8.80	9.68	10.65	11.71	12.88	14.17	14.17	Program data	NHA, SHFC, HDMF, HGC, DILG, LGUs	HUDCC	Suitable land for socialized and low- cost housing is available.
	Proportion of low-cost housing targets met to housing needs improved (%) (Cumulative)	2016	-	10	11	12.1	13.31	14.64	16.10	16.10	Program data	NHA, SHFC, HDMF, HGC, DILG, LGUs	HUDCC	Basic services/utilities (i.e. water & power supply) are provided on time.
	Number of socialized housing units delivered (cumulative)	2016	658	839	906	1,059	562	398*	438*	TBA	Program data	NHA, SHFC, HLURB, NHMFC, HGC, DILG	HUDCC	Adequate budget for housing is provided.
	Number of low-cost housing units delivered (cumulative) <sup>f</sup>	2016	718	647	TBA	TBA	TBA	TBA	TBA	TBA	Program data	HDMF, HGC, NHMFC, HLURB	HUDCC	Issues in land titling, land conversion, and compliance to land development/housing construction documentary requirements resolved.
	Percentage of LGUs with DRR-CCA-Enhanced Comprehensive Land Use Plan (CLUPs)	2016	12	14	14	14	14	14	14	14	84	Program data	HLURB	HUDCC

**Notes:**

a Actual data as of December 2015, or most recent available data. May not necessarily be year-end values

b May either be the cumulative or incremental target value at the end of the Plan period

c Indicative one (lead) responsible agency only (responsible for reporting progress on indicator targets)

d Lead agency responsible for reporting progress on indicator/targets

e National Housing Authority R02 has no target for 2021-2022

f HDMF Region 2 has no target for 2018-2022.

## CHAPTER 13: Reaching for the Demographic Dividend

The likelihood of achieving the desired increase in potential growth can be assured when all women and men, girls and boys, enjoy their rights to expand their capabilities, secure their reproductive health, and able to find decent work in order to contribute to economic growth. It is imperative that we know the size, sex and age structure of the region's present and future generation. Besides good health, quality education and decent employment, a lower proportion of young dependents to the working age population provides an opportunity for optimizing the potentials brought by demographic dividend. Few children per household will lead to large share of investment per child, more freedom for women to be gainfully employed and more savings generated for old age. The overall outcome for this Plan component and the corresponding strategies are shown below:

### **Overall Outcome A: Demographic Transition Accelerated**

- Full implementation of the RPRH law to reduce fertility;
- Resolve Gender issues on Family planning;
- Reduce teenage pregnancies and make teenage parents productive; and
- Encourage participation/involvement of CSO & community support to population management programs.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 13: REACHING FOR THE DEMOGRAPHIC DIVIDEND**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Societal Goal														
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy														
Intermediate Goal														
Increasing growth potential														
Chapter Outcome 1														
Demographic transition accelerated	Crude death rate decreased (%) <sup>e</sup>	2014	6.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Civil Registration and Vital Statistics	DOH	PSA	Families and communities practice healthy lifestyle
	Total fertility rate decreased (total number of births per woman aged 15-49)	2013	3.2	N/A	N/A	N/A	N/A	N/A	2.1	2.1	NDHS	DOH/POPCOM	PSA	LGUs are committed and have strengthened capacities to deliver basic services and supplies
	Adolescent birth rate (aged 15-19 years) decreased (number of births per 1,000 women in that age group)	2013	54/1,000	N/A	N/A	47	N/A	N/A	40/1,000	40/1,000		DOH/POPCOM	PSA	Health professionals prefer to work in the country
	Modern contraceptive prevalence rate increased (%)	2016	61.53	61	62	63	64	65	66	66		DOH/POPCOM	PSA	Country continues to improve economic performance
Chapter Outcome 2														
Maximize gains from the demographic dividend	Maternal mortality ratio decreased (number of deaths per 100,000 live births)	2016	35.86	<52	decreasing	decreasing	decreasing	decreasing	decreasing	<52	FHSIS-DOH	DOH	PSA	Cooperation and alignment of initiatives among all stakeholders
	Under-5 mortality rate decreased (number of deaths per 1,000 live births)	2016	6.78	5.78	5.61	5.46	5.31	5.16	5.02	5.02	FHSIS-DOH	DOH	PSA	Supportive policy environment in legislature and judiciary
	Prevalence of stunting among children under 5 decreased (%)	2015	29	N/A	N/A	28	N/A	N/A	26.5	26.5	NNS	NNC	DOST-FNRI	Changes in political leadership
	Youth unemployment decreased	Oct-16	11.6	11.0	10.4	9.8	9.2	8.6	8.0	8.0	LFS	DOLE	PSA	Competing priorities of LGUs
	Mean years of schooling increased	2014	8.9	N/A	N/A	N/A	N/A	N/A	N/A	11.30	11.3	Human Development Report	Human Development	

**Notes:**

a Actual data as of December 2015, or most recent available data. May not necessarily be year-end values

b May either be the cumulative or incremental target value at the end of the Plan period

c Indicative one (lead) responsible agency only (responsible for reporting progress on indicator targets)

d Lead agency responsible for reporting progress on indicator targets

e Crude death rate refers to the ratio of the number of deaths occurring within one year to mid-year population expressed per 1,000 population. (NSCB Resolution No. 8 s. 2006)



## **CHAPTER 14: Vigorously Advancing Science, Technology and Innovation**

Science, technology and innovation (STI) is one of the key drivers of productivity, growth, and advancement. It also serves as an effective strategy to improve global competitiveness amidst the new challenges and trends especially global trade, population growth, urbanization and climate change. The region will vigorously advocate for the use of STI to enhance countryside development, sustained economic growth and competitiveness especially of the MSMEs and increase resiliency of the regional community during the Plan period. Two overall outcomes of the STI sector shall be on: (a) promoting and accelerating technology adoption; and (b) stimulating innovation.

### **Chapter Outcome A: Technology adoption promoted and accelerated**

Under this outcome, two intermediate outcomes will be attained: (1) STI utilization in agriculture, industry, and services sectors increased; and (2) investments in STI-based start-ups, enterprises and spin-offs increased.

#### **Intermediate Outcome 1: STI utilization in agriculture, industry, and services sectors increased**

- Improve mechanism for technological transfer, commercialization, and utilization;
- Ensure alignment of research works with the RRDA; and
- Foster STI culture.

#### **Intermediate Outcome 2: Investments in STI-based start-ups, enterprises and spin-offs increased**

- Establish innovation/incubation hubs; and
- Provide support mechanisms for start-ups and MSMEs.

### **Overall Outcome B: Innovation stimulated**

The second desired outcome on stimulated innovation has two intermediate results that need to be prioritized: (a) strengthened open collaboration among actors in the STI system; and (b) enhanced creative capacity for technology acquisition and adoption with global standard.

#### **Intermediate Outcome 1: Open collaboration among actors in the STI ecosystem strengthened**

- Intensify linkages and engagements; and
- Establish a database of researches in the region.

#### **Intermediate Outcome 2: Creative capacity for technology acquisition and adoption with global standard enhanced**

- Provide and improve STI infrastructure;
- Provide S&T scholarships (secondary, undergraduate and graduate);
- Expand S&T services offered such as OneLab, One Expert, OneStore; and
- Focus and support the R&D agenda.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 14: VIGOROUSLY ADVANCING SCIENCE, TECHNOLOGY, AND INNOVATION**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Increasing growth potential															
Chapter Outcome 1															
Technology adoption promoted and accelerated															
Aggregate Outputs															
	No. of technology interventions under SETUP increased (cumulative)	2016	50	80	110	140	170	200	210	210	DOST RO 02 Accomplishment Report	DOST RO 2	DOST RO 2		
	No. of trainings conducted (SETUP and Non-SETUP) increased (cumulative)	2016	50	100	150	200	250	300	350	350		DOST RO 2	DOST RO 2		
Sub-chapter Outcome 1.1															
STI (science, technology and innovation) utilization in agriculture, industry and services sectors increased															
Aggregate Outputs															
	Number of DOST funded researches conducted by the different S&T Consortia increased (incremental)														
	CVHRDC	2016	2	3	3	3	3	3	3	3	18	DOST RO 02 Accomplishment Report	DOST RO 02	DOST RO 02	
	CVARRD	2016	2	3	3	3	3	3	3	3	18	ISU/DOST RO 02 Accomplishment Report	DOST RO 02	DOST RO 02	
	CVIERDC	2016	2	3	3	3	3	3	3	3	18	DOST RO 02 Accomplishment Report	DOST RO 02	DOST RO 02	
	EMC	2016	2	3	3	3	3	3	3	3	18		DOST RO 02	DOST RO 02	
	Number of new Intellectual Property facilitated for SUCs and HEIs increased	2016		20	30	40	50	60	70	270		DOST-TAPI, SUCs, DOST RO 02	DOST RO 02		
Sub-chapter Outcome 1.2															
Investments in STI-based start-ups, enterprises, and spin-offs increased															
Aggregate Outputs															
	Number of new MSMEs enrolled in SETUP increased (incremental)	2016	30	40	50	60	70	80	100	400	DOST RO 02 Accomplishment Report	DOST RO 02	DOST RO 02		
	Number of households empowered thru Community Empowerment Thru S&T increased (incremental)	2016	50	60	70	80	90	100	120	520		DOST RO 02	DOST RO 02		
	Number of Innovation Hubs established increased	2016	1 (EMC - Isabela	1 (FIC- Cagayan	1 (FIC Isabela)	1( Citrus - N. Vizcaya)	1 (Rootcrops, Batanes)	1 (Metals – Cagayan)	1 (Coffee/Ban ana-Quirino	6		DOST RO 02	DOST RO 02		
Chapter Outcome 2															
Innovation stimulated															
Aggregate Outputs															
	No. S&T Promotion Activities conducted (S&T Fairs, Caravan, Centrum, Fora etc.)	2016	50	100	150	200	250	300	350	1350	DOST RO 02 Accomplishment Report	DOST RO 02	DOST RO 02		
	No. of Investigatory Projects evaluated increased (incremental)	2016	50	100	150	200	250	300	350	1350		DOST RO 02	DOST RO 02		
	No. of Press Conferences on STI increased (incremental)	2016		5	5	10	10	10	10	50		DOST RO 02	DOST RO 02		

**Notes:**

a Actual data as of December 2016, or most recent available data. May not necessarily be year-end values.

b May either be the cumulative or incremental target value at the end of the Plan period.

c Agency accountable for delivering the outputs/achievement of outcomes.

d Lead agency responsible for reporting progress on indicator targets.

e CVHRDC stands for Cagayan Valley Health R&D Consortium, CVARRD for Agriculture and Resources R&D, CVIERDC for Industry and Energy R&D Consortium, and EMC for Equipment Manufacturing Cluster Center

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 14: VIGOROUSLY ADVANCING SCIENCE, TECHNOLOGY, AND INNOVATION**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Sub-chapter Outcome 2.1														
Creative capacity for knowledge and technology generation, acquisition, and adoptions enhanced														
Aggregate Outputs														
	R&D expenditure as a proportion of GDP increased (in %, cumulative) <sup>f</sup>	2013	0.05	TBD	TBD	TBD	TBD	TBD	TBD	TBD	DOST Compendium of S&T Statistics	DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	Number of researchers increased (cumulative) <sup>f</sup>	2013	654	TBD	TBD	TBD	TBD	TBD	TBD	TBD		DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	No. of seminar-workshops on Harmonized National R&D Agenda increased (incremental)	2016	-	3	3	3	3	3	3	18	DOST RO 02 Accomplishment Report	DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	No. of ICT systems developed supporting STI maintained (incremental)	2016	-	1	1	1	1	1	1	6		DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	No. of emerging technologies adopted (ICT, biotech, nanotech etc.) increased (incremental)	2016	-	1	1	1	1	1	1	6		DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	No. of S&T scholarships maintained (incremental)	2016	-	TBD	TBD	TBD	TBD	TBD	TBD	TBD		DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	No. of lab tests using Unified Laboratory Information Management System of OneLab increased (incremental)	2016	2	5	8	10	12	14	16	65		DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	No. of S&T experts deployed thru OneExper maintained (incremental)	2016	-	10	10	10	10	10	10	60		DOST RO 02 and other research institutions	DOST RO 02/ PSA	
	No. of products uploaded thru OneSTore increased (incremental)	2016	50	100	150	200	250	300	350	1350		DOST RO 02 and other research institutions	DOST RO 02/ PSA	
Sub-chapter Outcome 2.1														
Open collaboration among actors in the STI ecosystem strengthened														
Aggregate Outputs														
	No. of new R&D conducted thru consortia increased	2016	5	5	10	15	20	25	30	105	DOST RO 02	DOST 02, Consortia Members	DOST RO 02	
	No. of new Balik Scientists deployed (incremental)	2016	-	2	3	4	5	5	5	24		DOST 02, Consortia Members	DOST RO 02	
	No. of International Seminars on STI attended (incremental)	2016	-	1	1	1	1	1	1	6		DOST 02, Consortia Members	DOST RO 02	
	No. of International Seminars on STI re-echoed (incremental)	2016	-	1	1	1	1	1	1	6		DOST 02, Consortia Members	DOST RO 02	
	No. of STI seminars for SUCs (incremental)	2016	-	2	2	2	2	2	2	12		DOST 02, Consortia Members	DOST RO 02	

**Notes:**  
<sup>f</sup> The PSA and DOST are requested to produce this data annually instead of every two years. Data from 2016 to 2022 may be better to monitor the indicator

## **CHAPTER 15: Ensuring Sound Macroeconomic Policy**

The Region shall stay firm in its commitment in expanding opportunities to reduce inequality and in increasing growth potential towards realizing the country's long term goal of inclusive growth, high society and competitive knowledge economy. Its supporting role to strengthening the macroeconomic environment shall provide a strong foundation for the regional economy to attain inclusive and sustainable development path. With an overall outcome of attaining a Strengthened Macroeconomic Environment, four strategic intermediate outcomes were identified, namely: (1) production in the real economy optimized, (2) strategic and enabling government finance achieved, (3) stable inflation and inclusive financial services achieved, and (4) foundations for external trade established.

### **Overall Outcome: Strengthened Macroeconomic Environment**

#### **Intermediate Outcome 1: Productive regional economy optimized**

- Manage risks in agriculture production;
- Strengthen forward and backward linkages; and
- Encourage private sector participation.

#### **Intermediate Outcome 3: Inclusive financial services and stable inflation achieved**

- Proactive support role in managing inflation and price stability; and
- Promote financial products and services to the unserved and underserved sectors.

#### **Intermediate Outcome 4: Foundations for external trade established**

- Develop product goods and services in the region ready for global markets

#### **Cross cutting Strategies.**

Regional growth particularly in support to reducing inequality and increasing growth potential also requires a strengthened macroeconomic environment governed under a conducive national competition policy. Strategies to ensure a sustainable development in the region will also be undertaken by ensuring infrastructure support, increasing resiliency of communities, ensuring peace and stable security, and maintaining ecological integrity and clean and healthy environment.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 15: ENSURING SOUND MACROECONOMIC POLICY**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Reducing inequality and increasing growth potential															
Chapter Outcome															
Stable, sound, and supportive macroeconomic environment achieved															
Sub-chapter Outcome 1															
Productive regional economy optimized	GRDP Growth improved (at constant prices, %)	2016	3.3	5.1-6.1	5.6-6.6	6.1-7.1	6.2-7.2	6.3-7.3	6.5-7.5	6.5-7.5	PSA Regional Accounts	RLAs, LGUs, PSA	PSA		
Aggregate Outputs															
	Share of Industry GVA to Total GRDP increased (%)	2016	14.5	increasing	increasing	increasing	increasing	increasing	increasing	increasing	PSA Regional Accounts	RLAs, LGUs, PSA	PSA		
	Underemployment rate reduced (%)	2016	12.7	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	PSA Regional Accounts	RLAs, LGUs, PSA	PSA		
Sub-chapter Outcome 2															
Strategic and enabling government finance achieved	Revenue collections by agency improved (in Million PhP )														
	BIR	2016	8,446.52	10% increase annually	10% increase annually	10% increase annually	10% increase annually	10% increase annually	10% increase annually	Increasing	Accomplishment Report	BIR	BIR	The tax reform program is passed.	
	LTO	2015		TBD	TBD	TBD	TBD	TBD	TBD	TBD	Accomplishment Report	LTO	LTO	The tax reform program is passed.	
	Local revenue collection efficiency improved (regional total)	2016		TBD	TBD	TBD	TBD	TBD	TBD	TBD	Accomplishment Report	LGUs, BLGF	BLGF	All LGUs capacitated/informed on local finance policies (% of LGUs).	
Aggregate Outputs															
	IRA-Dependency Ratio of Provinces and Cities improved (%)													Political will of LGUs to adopt locally legislated measures.  All LGUs capacitated/informed on local finance policies (% of LGUs).	
	Batanes	2016	97	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF		BLGF
	Cagayan	2016	92	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Isabela	2016	84	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Nueva Vizcaya	2016	80	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Quirino	2016	78	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Cauayan	2016	74	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Ilagan	2016	88	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Santiago	2016	86	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Tuguegarao	2016	60	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Accomplishment Report	LGUs, BLGF	BLGF		
	Number of training activities conducted on Government Procurement Reform Act (RA 9184) and its revised implementing rules and regulations (IRR) increased	2016	13	14	15	16	17	18	19	99 training activities conducted	Officer Performance Accomplishment Report	DBM	DBM	Number of training activities conducted may increase or decrease depending upon GAA funding, implementation of programs in partnership with other agencies, roll- out training of recognized trainers, and training demand/requests.	

**Notes:**

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b May either be the cumulative or incremental target value at the end of the Plan period

c Agency accountable for delivering the outputs/achievement of outcomes

d Lead agency responsible for reporting progress on indicator targets

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 15: ENSURING SOUND MACROECONOMIC POLICY**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
Sub-chapter Outcome 3														
Inclusive financial services and stable inflation achieved	Low and stable inflation rate achieved <sup>e</sup>	2016	3.0	2.00 - 4.00	2.00 - 4.00	2.00 - 4.00	2.00 - 4.00	2.00 - 4.00	2.00 - 4.00	EOP	PSA Regional Accounts	PSA	PSA	Pending petitions for adjustments in electricity rates and the implementation of the tax policy reform program pose as upside risks to inflation.
	Financial system's <sup>f</sup> total savings portfolio increased (in Billion PhP)	2016	113.99 Billion	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Report	BSP	BSP	Better real sector performance. Higher level of financial literacy.
	Financial system's total loans portfolio increased (in Billion PhP)	2016	49.02 Billion	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Report	BSP	BSP	Greater economic activities.
Aggregate Outputs														
	Number of banking institutions within the region increased	2016	325	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Report	BSP	BSP	Greater economic activities.
Sub-chapter Outcome 4														
Foundations for external trade established (see also Chapter 9 Sub-chapter Outcome 1.1 and 1.3)														
Aggregate Output														
	Number of exporters assisted increased (cumulative)	2016	38	40	40	40	40	45	45	45	DTI RO2 Accomplishment report	DTI	DTI	High cost of production and Insufficient investment are possible risks. MSMEs have a high level of awareness and appreciation on e-commerce as a platform and mechanism to be part of the global value chain and developing global brands.
	Number of MSMEs with e-commerce increased (cumulative)	2016	-	25	227	340	567	567	567	567	DTI RO2 Accomplishment report	DTI	DTI	

**Notes:**

e Inflation target of 2.0-4.0 is set by the Bangko Sentral ng Pilipinas (BSP)

f The Philippine Financial System is composed largely of the banking system which includes universal and commercial banks, thrift banks, rural banks and cooperative banks. In addition, the country's financial system also accounts for Non-Bank Financial Institutions with Quasi-Banking Functions (NBQBs) and non-stock

## CHAPTER 16: Support to the National Competition Policy

This region shall be supportive to the national government's goal of leveling the playing field for the small and big players in the market through the enactment of Republic Act (RA) No. 10667 or the Philippine Competition Act (PCA) on July 21, 2015. This law reinforces the efforts of the government to sustain inclusive economic growth and provides for the formulation of a National Competition Policy (NCP), which aims to steer regulations and administrative procedures of government agencies toward promoting competition, as well as strengthen the enforcement of anti-trust laws and effectively ensure competitive neutrality. This chapter of the Plan therefore seeks to support national strategies to improve consumer welfare and efficiency of the market, which will subsequently be felt at the local level.

### **Overall Outcomes: Anti-competitive practices diminished and market efficiency improved**

- Greater competition in the agriculture sector enhanced
  - ✓ Develop access to farmers to reasonable price of farm inputs.
  - ✓ Strengthen organization of farmer cooperatives
  - ✓ Promote innovation in farm management for greater productivity
  - ✓ Develop real-time price monitoring systems for agricultural inputs and outputs
  - ✓ Ensure farmer protection from abusive trading practices
- Greater role of LGUs in regulating competition
  - ✓ Strengthen the role of LGUs as enablers of free market economy
  - ✓ Strengthen regulatory function of LGUs in market competition and reduce barriers to entry of potential entrepreneurs and investors
  - ✓ Develop sub-regional institutional mechanisms in addressing uncompetitive practices
  - ✓ Reinforce knowledge sharing among LGUs to address market distortions and failures
  - ✓ Reduced barrier
- Improvement in the public procurement
  - ✓ Immediate review on the gaps of the procurement law
  - ✓ Provide greater penalties and stiffer criminal liability for government officials and private contractors
  - ✓ Develop mechanism to watch the watchdogs.
- Reduce monopolistic competition practices
  - ✓ Strengthen laws to protect consumers against deceptive and unfair practices
  - ✓ Capacitate consumers to be discerning, engaging and vigilant

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 16: SUPPORT TO THE NATIONAL COMPETITION POLICY**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Reducing inequality and Increasing potential growth															
Chapter Outcome															
Regulatory Environment for Competition and Consumer Welfare															
Sub-chapter Outcome 1.1															
Greater competition in the agriculture sector enhanced (see Chapter 8 Sub-Chapter Outcome 1.2 and Chapter Outcome 2)															
Sub-chapter Outcome 1.2 (see also Chapter 5 Subchapter Outcome 1.2) and Chapter 9 Sub-chapter Outcome 1.2)															
Greater role of the LGUs in regulating competition	Competitiveness ranking of Provinces improved														
	Batanes	2016	72	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	National Competitiveness Council Website	LGUs, DTI, NCC	NCC		
	Cagayan	2016	46	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking		LGUs, DTI, NCC	NCC		
	Isabela	2016	22	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking		LGUs, DTI, NCC	NCC		
	Nueva Vizcaya	2016	65	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking		LGUs, DTI, NCC	NCC		
	Quirino	2016	54	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking	Improved ranking		LGUs, DTI, NCC	NCC		
Sub-Chapter Outcome 1.3															
Improvement in the Public Procurement (see Chapter 5 Sub-chapter Outcome 1.1 and Sub-Chapter Outcome 1.3)															
Sub-chapter Outcome 1.4 (see also Chapter 9 Sub-chapter Outcome 1.4 on indicators)															
Reduce monopolistic competition practices	Consumer complaints resolution rate increased (%)	2016	-	85	93	93	93	93	93	93	DTI Accomplishment Report	DTI	DTI		
	Percentage of violating firms penalized complying with the penalty within the	2016	-	90	90	90	90	90	90	90		DTI	DTI		
Aggregate Outputs															
	Number of Negosyo Centers established and maintained increased	2016	40	56	increasing	increasing	increasing	increasing	increasing	increasing	DTI Accomplishment Report	DTI	DTI		
	Number of advocacy activities on Consumer Protection Services conducted increased	2016	-	530	increasing	increasing	increasing	increasing	increasing	increasing		DTI	DTI		

**Notes:**

a Actual data based on the most recent available data.

b May either be the cumulative or incremental target value at the end of the Plan period

c Agency accountable for delivering the outputs/achievement of outcomes

d Lead agency responsible for reporting progress on indicator targets

e See also Chapter 16 on Competitiveness Index of PLGUs



## CHAPTER 17: Attaining Just and Lasting Peace

Peace and development are among the essential foundations of a progressive development. Re-building the peace and order in conflict-affected communities as well as the rehabilitation of conflict-vulnerable areas along with the upholding of territorial integrity provides for the attainment of a lasting peace and sustainable development in the community. Three overall outcomes are identified, to wit: (a) Internal Security Ensured, (b) Army Transformation Roadmap 2028 insitutionalized, (c) territorial integrity assured.

### **Intermediate Outcome 1: Internal Security Ensured**

- Intensify internal peace security efforts;
- Empowerment of the communities especially in conflict areas;
- Rehabilitation of conflict-affected and conflict-vulnerable areas;

### **Intermediate Outcome 2: Army Transformation Roadmap 2028 Institutionalized.**

- Capacitate the Philippine Army (PA);
- Modernization of PA equipment and facilities

### **Intermediate Outcome 3: Territorial Integrity Assured**

- Expand and strengthen patrol operations;
- Modernize maritime patrol equipment and facilities;
- Provide adequate and well-trained personnel; and
- Strict enforcement of fishery laws

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 17: ATTAINING JUST AND LASTING PEACE**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Enhancing the social fabric by building trust in public institutions															
Chapter Outcome 1															
Attaining Just and Lasting Peace															
Sub-chapter Outcome 1.1															
Internal Security Assured	Number of barangays in Geographically Isolated and Disadvantaged areas (GIDAs) and in Conflict Affected Areas (ConAAs) provided with community Service Program (CSP)	2017	-	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Area Clearing Validation Report	AFP	AFP		
	Percentage of LGUs with Peace and Order and Public Safety Plan (POPS PLAN)	2017	-	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Accomplishment Report	LGUs, DILG	DILG	This activity will begin starting CY 2017.	
Aggregate Outputs															
	Number of CAA Patrol Bases supported by LGUs	2017	-	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing	Accomplishment Report	AFP	AFP		
	Percentage of command and control (C2) activities successfully undertaken	2016	-	90	90	90	90	90	90	90	Accomplishment Report	AFP	AFP		
Sub-chapter Outcome 1.2															
Army Transformation Roadmap 2028 Institutionalized	Percentage of Subordinate Units compliant to Army Transformation Roadmap 2028 (%)	2016	6.25	75	-	-	-	-	-	75	Conferred by Higher Headquarters	AFP	AFP		
Aggregate Outputs															
	Number of Reserve Force training conducted	2017	-	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing	Increasing	JAPIC Report	AFP	AFP		
Sub-chapter Outcome 1.3															
Territorial Integrity Assured	Number of maritime security and law enforcement activities increased														
	Seaborne Patrol PCG BFAR (incremental)	2016	89 100	increasing 100	increasing 150	increasing 192	increasing 192	increasing 192	increasing 192	increasing 1,018	Weekly and Monthly Accomplishment Reports/ Sailing Order/Travel	PCG/ BFAR	PCG/ BFAR	Weather disturbances may affect the frequency and duration of sea borne patrols.	
	Shore/Coastal Patrol PCG BFAR (incremental)	2016	4,672	increasing 100	increasing 150	increasing 192	increasing 192	increasing 192	increasing 192	increasing 1,018		PCG/ BFAR	PCG/ BFAR	Threat assessment with the AOR may affect the frequency of Foot Patrols.	
	Percentage of poaching cases resolved against cases filed (%)	2016	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Status Report of Cases Filed	BFAR	BFAR	Dependent on the number of apprehensions made	
Aggregate Outputs															
	Number of maritime safety program activities increased														
	Pre-Departure Inspection (PDI) (domestic vessel/ motor/ banca	2016	5,315	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Accomplishment Report	PCG	PCG	Weather disturbance and number of actual registered vessel in the region may affect the frequency of the inspection.	
	Port State Control (PSC) (foreign vessel)	2016	8	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Accomplishment Report	PCG	PCG		

**Notes:**

a Actual data based on the most recent available data.

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c Agency accountable for delivering the outputs/achievement of outcomes

d Lead agency responsible for reporting progress on indicator targets

## **CHAPTER 18: Ensuring Security, Public Order, and Safety**

Security, public order and safety are among the primary concerns of a progressive development. It promotes greater socio-economic activities and development endeavors of both public and private sectors, hence, social welfare of the community is attained equitably and poverty is reduced to a minimum, if not zero. The efforts of the government in eradicating external and internal security threats, crime incidence and drug substance abuse, and upholding professionalism of law enforcers would result to the realization of the identified intermediate outcome namely: (a) Safe and Secure Communities for All, and (b) Capability and Professionalism of Law Enforcers Improved.

### **Intermediate Outcome 1: Safe and Secure Communities for All**

- Intensify security, public order and safety efforts;
- Strengthen anti-drug operations;
- Conduct drug demand reduction activities; and,
- Deepen community and stakeholders' partnership and engagement to all peace efforts

### **Intermediate Outcome 2: Capability and Professionalism of Law Enforcers Improved**

- Enhance capability of the security sector;
- Upgrading and modernization capabilities; and,
- Provision of adequate manpower complement

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 18: ENSURING SECURITY, PUBLIC ORDER, AND SAFETY**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Enhancing the social fabric by building trust in public institutions															
Chapter Outcome															
Ensuring Security, Public Order, and Safety															
Sub-chapter Outcome 1.1															
Safe and Secure Communities	Crime Situation														
	Total crime volume reduced	2016	17,476	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Annual Unit Crime Periodic Report	PNP	PNP		
	Crime Clearance Efficiency improved	2016	74.82	76.82	78.82	80.82	82.82	84.82	86.82	86.82		PNP	PNP		
	Crime Solution Efficiency improved (%)	2016	63.48	67.48	69.48	71.48	73.48	75.48	77.48	77.48		PNP	PNP		
	Drug Situation														
	Percentage of Watch Listed Drug Personalities (HVT and SLT) cleared	2016	1,706	139	92	92	0	0	0	2,022	After Operation Report/Double Barrel Database	PNP	PNP	There were 2,029 Watch Listed Drug Personalities of which 323 were not neutralized as of 2016.	
	Percentage of barangays declared "drug cleared"	2016	1,075	50%	40%	5%	0	-	-	All barangays are drug-free	Validation conducted by created oversight committee (DDB Res No. 3 S,2017)	PDEA	PDEA	The baseline data is the total number of cleared/drug free for the year which is 4.86% of the 1,666 affected barangays region wide.	
	Number of cases filed against the arrested personalities decreased	2016	1,288	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	PDEA Operations Report Monitoring Info System	PDEA	PDEA	Decreasing trend is due to the proportioned effect of anti-drug operations being conducted	
	Public Safety														
	Fire incidents decreased	2016	228	179	10% reduction	10% reduction	10% reduction	10% reduction	10% reduction	10% reduction	decreasing	Accomplishment Report	BFP	BFP	The 10 percent reduction of fire incident is only an indicator since fire incident is not constant, it might increase or decrease
	Proportion of inspected buildings and establishments complying with the Fire Code	2016	51,557	64,348	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Conduct of Fire Safety Inspection	BFP	BFP	
Aggregate Outputs															
	Crime Situation														
	Number of index crimes decreased	2016	4,408	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Annual Unit Crime Periodic Report	PNP	PNP	Increasing trend is expected due to the police initiated operations in the implementation of Special Laws like RA 10591, RA 9262, RA 7610, etc.	
	Number of non-index crimes decreased	2016	13,168	increasing	increasing	increasing	increasing	increasing	increasing	increasing		PNP	PNP		
	Number of physical injuries due to road traffic accidents decreased	2016	1,507	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing		PNP	PNP		
	Most Wanted Persons Arrested (Regional, Provincial, Municipal) (incremental)	2016	2	3	4	5	6	7	8	35		PNP	PNP		There were 48 TMWPR listed as per MC issued by DILG.
	Drug Situation														
	Number of anti-drug operations conducted	2016	834	40%	20%	10%	10%	5%	5%	decreasing	PDEA Operations Report Monitoring Info System	PDEA	PDEA	Targets based from the actual of 2016. The number of anti-drug operations is assumed to decrease due to consistent supply reduction strategies which are equated to inversely affect proportional to the demand strategy of barangay drug clearing activities mandated on LEAs and stakeholders.	

**Notes:**

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**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 18: ENSURING SECURITY, PUBLIC ORDER, AND SAFETY**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
	Number of drug personalities arrested decreasing (PDP Indicator)	2016	1,075	40%	20%	15%	10%	5%	5%	decreasing	PDEA Operations Report Monitoring Info System	PDEA	PDEA	Decreasing trend is due to more active involvement of the community/citizenry in the drug campaign not to mention the inversely proportion effect of between demand and supply reduction initiatives.
	Number of drug users decreased	2016	22,589	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	Lateral coordination among drug enforcement units	PDEA	PDEA	Decreasing is due to the continuous PDEA and PNP leadership and the strong collaborations on barangay drug clearing operations particularly on campaign against high value targets (HVTs) and High Impact Operations.
	Number of conducted anti-drug advocacy increased	2012	1,580	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Data/Records and Community Education Section	PDEA	PDEA	
	Number of barangays with MASA MASID Team organized	2016	2,021	290	-	-	-	-	-	100% MASA MASID Teams organized by 2017	Accomplishment Report	DILG	DILG	
	Public Safety													
	Percentage of fire calls responded within seven (7) minutes	2016	131	136	increasing	increasing	increasing	increasing	increasing	increasing	increasing	Accomplishment Report (Spot Investigation Report)	BFP	BFP
Sub-chapter Outcome 1.2														
Capability and Professionalism of Law Enforcers Improved	Police to Citizen Ratio improved	2016	1:600	1:534	1:536						Accomplishment Report	PNP	PNP	Continuous personnel fill-up
	Firemen to Population Ratio improved	2016	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000	1:2000		BFP	BFP	
	Proportion of participants (AFP/PNP) who passed the post training tests (%)	2016	85	85	85	85	85	85	85	85		CHR	CHR	
	Percentage of cases disposed over the total number of cases filed (rate of disposition of cases)	2016	27	75% increase annually	75% increase annually	75% increase annually	75% increase annually	75% increase annually	75% increase annually	75% increase annually		NAPOLCOM	NAPOLCOM	Increasing trend in the disposition of cases is due to the simplification of rules in the proceedings of the summary dismissal cases as per Memo Circular No. 2016-004
Aggregate Outputs														
	Number of law enforcers trained with Gender Awareness Development increased (cumulative)	2016	1,845	1,863	1,881	1,899	1,917	1,935	1,953	1,953	Accomplishment Report	PNP	PNP	
	Number of law enforcers trained of human rights increased (incremental)	2016	2,476	2,526	2,576	2,626	2,676	2,726	2,2776	15,906	Training Report	CHR	CHR	
	Number of human rights violation cases against law enforcers expeditiously investigated (incremental)	2016	20	22	20	21	22	23	22	130	MAREIS system generated monitoring	CHR	CHR	

## **CHAPTER 19: Accelerating Infrastructure Development**

Infrastructure is one of the most crucial factors in development especially in the countryside. Addressing infrastructure gaps especially in the growth centers of the region will be prioritized in order to stimulate development and to create a conducive business environment especially for prospective investors. The efficiency and reliability of public infrastructures improves production efficiency and subsequently the delivery of public services in all sectors. The infrastructure development as discussed in this chapter of the Plan covers different areas ranging from the transportation, communication, irrigation, power, social infrastructure and disaster risk reduction management infrastructures; and the overall outcome is to accelerate infrastructure development and sustain their operations.

### **Overall Outcome: Infrastructure Development Accelerated and Operations Sustained**

#### **Intermediate Outcome 1: Spending on public infrastructure increased**

- Enhance the linkage of the planning, programming, and budgeting processes of the government.
- Encourage private sector participation.
- Alignment with master plans and roadmaps.
- Improve government administrative systems and procedures on project implementation.

#### **Intermediate Outcome 2: Strategic infrastructure implemented**

##### **Transportation**

- Support the enactment of a National Transport Policy
- Improve physical state of existing infrastructures and expand the transport networks (i.e., roads and bridges) following the established standards by government agencies
- Utilize roadmaps and evidenced-based studies to guide rational development of an intermodal transport infrastructure network
- Promote engineering, enforcement, and education as a mechanism in addressing traffic congestion
- Support the national thrust for the gradual shift towards public transport, with emphasis on mass transport, ensuring the accessibility, availability, affordability, adequacy, convenience, and reliability.
- Improve the operational efficiency of airports
- Improve port facilities by rehabilitating or upgrading existing ports
- Ensure safety and security of the public transport system

##### **Water Resources**

- Support the creation of an apex body and the formulation of masterplans that will foster coordinated efforts across the country
- Enhance the capacities of concerned entities in developing and managing water-related projects with the direct involvement of local or regional agents for its regulation and monitoring.
- Promote efficient water utilization
- Pursue institutional reforms to encourage and guide investments in water services
- Support the formulation of an irrigation master plan to set the direction for irrigation development and a framework for capital and O&M financing of irrigation projects
- Undertake the flood management initiatives

## Energy

- Support the required massive investments and fast track the implementation of infrastructure projects to improve power generation
- Study an optimal energy mix based on appropriate allocation of capacities (i.e., baseload, intermediate, peaking) and technologies (i.e., renewable energy, nuclear, coal, oil, gas, etc.)
- Ensure needed transmission facilities are implemented on time to efficiently transmit electricity to various load centers and interconnect the entire grid
- Provide electricity services to the remaining off-grid areas, island, remote, communities to achieve total household electrification
- Support the implementation of the EEC program that is aimed to support economic growth and environmental protection

## ICT Infrastructure

- Expand the deployment of ICT infrastructure and address the gaps in digital connectivity
- Continue to enhance the e-government systems for good governance

## Social Infrastructure

- On Education, address the existing gaps in the education sector by providing school buildings with complementary facilities such as power, ICT, water and sanitation facilities and develop an open and comprehensive database of education infrastructure system
- On Health, expand existing plans and programs on the implementation of health facilities in the Philippine Health Facility Development Plan (PHFDP) (e.g., DOH hospitals and health facilities including rural health units, barangay health units, blood service facilities, psychiatric facilities, reference laboratories, and quarantine stations, etc.)
- On Solid Waste Management, provide assistance to LGUs in complying with the requirements under the ESWMA (e.g., clustering LGUs for SWM facilities and services, alternative technologies to reduce, reuse, recycle waste, etc.)
- On Housing, provide secure tenure in affordable, safe, and disaster-resilient housing to underprivileged and homeless families.

## Intermediate Outcome 3: Asset preservation ensured

- Increase technical and financial capabilities for operations.
- Incorporate climate change adaptation and disaster resilience measures.
- Ensure the security of infrastructure facilities

## Intermediate Outcome 4: Intensify infrastructure-related research and development (R&D) intensified

- Institutionalize R&D expertise
- Support efforts of the national government in the pursuit of programs to develop R&D along, renewable energy and technologies; cost-efficient technologies for wastewater and solid, hazardous, and health care wastes management for the protection of public health and the environment; new transportation technologies; climate change- and disaster resilient infrastructure designs; emerging ICT applications or platforms; and new methodologies for gathering and managing science-based data. In addition, establishment of R&D facilities will be supported.

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 19: ACCELERATING INFRASTRUCTURE DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Enhancing the social fabric by building trust in public institutions and increasing growth potential															
Chapter Outcome 1															
Infrastructure Development accelerated and operations sustained															
Sub-chapter Outcome 1.1															
	Power/Energy														
	Energy intensity (electricity consumption) reduced (kWh per million peso)	2016	-	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing		Annual Accomplishment Report	DOE	DOE	
	Transport Infrastructure														
	Road Roughness Index Improved	2016	4.88 (actual)	3.41 or 30%	2.92 or 40%	2.44 or 50%	1.95 or 60%	1.46 or 70%	0.97 or 80%	0.97 or 80%	DPWH Atlas, Accomplishment Reports, DPWH Performance Governance System	DPWH	DPWH		
	Road Density increased (km/total land area)	2016	-	1,903.89/ 28,228.83	1,919.24/ 28,228.83	1,929.11/ 28,228.83	1,939.28/ 28,228.83	1,945.55/ 28,228.83	1,951.53/ 28,228.83			PSA, DPWH	DPWH		
	Average travel speed by road in key corridors increased (kph)		39	increasing	increasing	44.5	increasing	increasing	52		Surveys	DPWH/ LTFRB/ LTO/ LGUs	DPWH/ LTFRB/ LTO		
	Santiago to Tuguegarao (via Maharlika Highway)														
	PUV	2016	30 km/hr	increasing	increasing	increasing	increasing	increasing	increasing						
	Private	2016	42 km/hr	increasing	increasing	increasing	increasing	increasing	increasing						
	Santiago to Tuguegarao (via Enrile- Santiago Road)														
	PUV	2016	31.25 km/hr	increasing	increasing	increasing	increasing	increasing	increasing						
	Private	2016	44.64 km/hr	increasing	increasing	increasing	increasing	increasing	increasing						
	Air Transport														
	Round-trip flights increased (number of flights, cumulative)														
	Tuguegarao Airport	o Arrival (cumulative) o Departure (cumulative)	2016	94,095	13% increase	20% increase	25% increase	30% increase	40% increase	50% increase		Operational Reports, Airline Statistical Reports	CAAP	CAAP	
				92,093	13% increase	20% increase	25% increase	30% increase	40% increase	50% increase					
	Cauayan Airport	o Arrival (cumulative) o Departure (cumulative)	2016	43,364	21% increase	25% increase	30% increase	35% increase	40% increase	45% increase			CAAP	CAAP	
				42,326	21% increase	25% increase	30% increase	35% increase	40% increase	45% increase					
	Basco Airport	o Arrival (cumulative) o Departure (cumulative)	2016	42,588	24% increase	30% increase	35% increase	40% increase	45% increase	50% increase			CAAP	CAAP	
				41,541	24% increase	30% increase	35% increase	40% increase	45% increase	50% increase					
	Bagabag Airport	o Arrival (cumulative) o Departure (cumulative)	2016	260	88% increase	89% increase	90% increase	91% increase	92% increase	93% increase			CAAP	CAAP	
				285	55% increase	60% increase	65% increase	70% increase	75% increase	80% increase					
	Itbayat Airport	o Arrival (cumulative) o Departure (cumulative)	2016	312	5% increase	10% increase	15% increase	20% increase	25% increase	30% increase		CAAP	CAAP		
				357	5% increase	10% increase	15% increase	20% increase	25% increase	30% increase					
	Cargo shipped increased (MT, cumulative)														
	Tuguegarao Airport	o Incoming (cumulative) o Outgoing (cumulative)	2016	1,278,010.00	43% increase	45% increase	50% increase	55% increase	60% increase	70% increase		Operational Reports, Airline Statistical Reports	CAAP	CAAP	
				946,935	93% increase	94% increase	95% increase	96% increase	97% increase	98% increase					

**Notes:**

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d Lead agency responsible for reporting progress on indicator targets.



**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 19: ACCELERATING INFRASTRUCTURE DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
	Cauayan Airport										Operational Reports, Airline Statistical Reports	CAAP	CAAP		
	o Arrival (cumulative)	2016	370,195	29% increase	35% increase	40% increase	45% increase	50% increase	55% increase						
	o Departure (cumulative)		396,639	26% increase	30% increase	35% increase	40% increase	45% increase	50% increase						
	Basco Airport											CAAP	CAAP		
	o Arrival (cumulative)	2016	535,041	47% increase	48% increase	49% increase	50% increase	55% increase	60% increase						
	o Departure (cumulative)		590,700	15% increase	15% increase	20% increase	25% increase	30% increase	35% increase						
	Bagabag Airport										CAAP	CAAP			
	o Arrival (cumulative)	2017	-	-	10% increase	15% increase	20% increase	25% increase	30% increase						
	o Departure (cumulative)		-	-	10% increase	15% increase	20% increase	25% increase	30% increase						
	Itbayat Airport											CAAP	CAAP		
	o Arrival (cumulative)	2016	1,989	5% increase	10% increase	15% increase	20% increase	25% increase	30% increase						
	o Departure (cumulative)		3,417	5% increase	10% increase	15% increase	20% increase	25% increase	30% increase						
	Percentage of Delayed Flights decreased	2016	3%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%		Airline Statistical Reports	CAAP	CAAP		
	Percentage of Canceled Flights decreased	2016	5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%			CAAP	CAAP		
	Water Transport														
	Passengers transported by sea increased (cumulative)														
Basco Port	2016	16,310	18,287	20,370	21,390	22,458	23,581	24,760	24,760	Operational Reports	PPA	PPA			
Aparri Port	2016	None	None	None	None	None	None	None			PPA	PPA			
Port Irene	2016	None	None	None	None	None	None	None			PPA	PPA			
Other Ports	2016	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.			PPA	PPA			
Cargo shipped increased (international and domestic) (MT, cumulative)															
Basco Port	2016	87,646	124,619	98,328	103,244	108,407	113,827	119,518	119,518	Operational Reports	PPA	PPA			
Aparri Port	2016	None	None	None	None	None	None	None			PPA	PPA			
Port Irene	2016	None	None	None	None	None	None	None			PPA	PPA			
Other Ports	2016	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.			PPA	PPA			
Water Resources															
Irrigation															
Ratio of actual irrigated area to the total potential irrigable area increased (% , cumulative)	2015	57.33	59	60.43	61.72	62.86	63.87	65.07	65.07	NIA Annual Reports	NIA, BSWM	NIA, BSWM	Potential irrigable area remains constant.		
Cropping intensity increased (% , cumulative)	2015	143.58	144	147	150	152	155	157	157	NIA Annual Reports	NIA, BSWM	NIA, BSWM			
Information and Communications Technology (ICT)															
Cost of ICT services decreased (% of Gross National Income (GNI) per capita)	2016	7.5	None	None	None	<6.4	None	<5.4	<5.4	ITU Measuring Information Society	DICT/NTC	DICT/NTC			
Average broadband download speed increased (Mbps)	2016	4.3	None	None	None	10	None	20	20	State of the Internet Quarterly Reports/ NBP	DICT/NTC	DICT/NTC			
Proportion of households (HHs) with internet connection to total number of HHs increased (% , cumulative)	2016	28.3	None	None	None	50	None	70	70	Broadband Commission The State of Broadband/NBP	DICT/NTC	DICT/NTC			
Number of agencies/cities/ provinces interconnected to the iGovPhil increased	No baseline	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Agency Reports	DICT/NTC	DICT/NTC			
Number of cities/ municipalities/provinces with access to free internet increased (JuanKonek/Free wifi)	No baseline	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Agency Reports	DICT/NTC	DICT/NTC			

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 19: ACCELERATING INFRASTRUCTURE DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk		
		Year	Value	2017	2018	2019	2020	2021	2022							
Aggregate Outputs																
	Transport Infrastructure															
	Road Transport															
	New National roads constructed (lane km, cumulative)	2016	0	8.91	24.26	34.13	44.3	50.52	56.55	56.55	DPWH Atlas, Accomplishment Reports, DPWH PG System	DPWH	DPWH			
	Length of National Roads Widened (in km, cumulative)	2016	-	37.0652	74.3792	118.3542	160.7202	201.3642	236.7292	236.7292		DPWH	DPWH			
	Air Transport															
	Number of night-rated airports increased	2015	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Operational Reports	CAAP/DOTr	CAAP/DOTr			
	Water Resources															
	Irrigation															
	Rehabilitated irrigation service areas increased															
	National Irrigation Systems (NIS)		1,050	870	4,085	10,395	2,805	2,294	5,477	25926	NIA Annual Reports	NIA	NIA			
	Communal Irrigation System (CIS)		2,385	2,162	2,431	6,845	1,583	1,310	1,236	15,567		NIA	NIA			
	Earth Canal		1,334	TBD	TBD	TBD	TBD	TBD	TBD	TBD		NIA	NIA			
	Lined Canal		28	TBD	TBD	TBD	TBD	TBD	TBD	TBD		NIA	NIA			
	Restored irrigation service areas increased (ha)															
	National Irrigation Systems (NIS)	2016	-	505	1,108	4,032	1,388	312	232	7,577	NIA Annual Reports	NIA	NIA			
	Communal Irrigation System (CIS)	2016	-	323	1,020	3,015	967	352	214	5,891		NIA	NIA			
	Developed new service areas increased (ha)															
	National Irrigation Systems (NIS)	2016		50	1,408	700	1,646	10,700	19,796	34,300	NIA Annual Reports	NIA	NIA			
	Communal Irrigation System (CIS)	2016		268	1,305	876	713	522	527	4,211		NIA	NIA			
	Power/Energy															
	Renewable Energy (RE) capacity increased (MW, cumulative)	2016	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Philippine Power Situation Report	DOE	DOE			
	Sub-chapter Outcome 1.2															
	Gaps in basic infrastructure for human capital development reduced	Water Resources														
		Water Supply and Sanitation														
		Proportion of HHs with access to basic sanitation to total number of HHs increased (% , cumulative)	2014	94.1	95.36	95.78	96.2	96.62	97.04	97.46	97.46	PSA APIS 2014	DOH, DILG, LGUs	DOH, DILG, LGUs		
		Social Infrastructure														
		Water and sanitation (WatSan) facility to pupil ratio improved														
Primary (K to 6)		2014	1:39	1:37	1:35	1:33	1:31	1:30	1:30	1:30	Enhanced Basic Education Information System (EBEIS)	DepEd	DepEd			
Junior High School		2014	1:49	1:47	1:45	1:43	1:41	1:40	1:40	1:40		DepEd	DepEd			
Senior High School		TBD	TBD	TBD	TBD	TBD	TBD	TBD	1:40	1:40		DepEd	DepEd			
Proportion of Barangays with Barangay Health Stations (BHS), Rural Health Units (RHU) or Urban Health Centers (UHC) to the total number of barangays increased (% , cumulative)		2017	70.64	TBD	TBD	TBD	TBD	TBD	100	100	Philippine Health Facilities Development Plan (PHFDP)	DOH	DOH			
RHU/UHC to population ratio improved		2017	1:35,461	TBD	TBD	TBD	TBD	TBD	1:20,000	1:20,000	PHFDP	DOH	DOH			
Polyclinics to population ratio improved		2017	1:350,000	TBD	TBD	TBD	TBD	TBD	1:100,000	1:100,000		DOH	DOH			
Hospital bed to population ratio improved		2016	1:1,135	TBD	TBD	TBD	TBD	TBD	0.5972222	0.5972222		DOH	DOH			

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 19: ACCELERATING INFRASTRUCTURE DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Aggregate Outputs															
	Water Resources														
	Water Supply and Sanitation														
	Proportion of HHs with access to safe water supply to total number of HHs increased (% , cumulative)	2014	70%	TBD	TBD	TBD	TBD	TBD	TBD	TBD	90%	PSA Annual Poverty Indicators Survey (APIS) Reports Actual inventory dat	LWUA, DILG, LGUs, WDs	LWUA, DILG, LGUs, WDs	HHs can afford water rates.
	Proportion of cities/municipalities served by Level III with 24/7 water supply increased (% , cumulative)	2015	16.41%	increasing	increasing	increasing	increasing	increasing	increasing	increasing	50%		LWUA, DILG, LGUs, WDs	LWUA, DILG, LGUs, WDs	
	Number of households served by WDs with water service connections increased (cumulative)	2016	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	WDs Monthly Data	LWUA, WDs	LWUA, WDs	
	Volume of desludged and/or treated septage in WDs increased (m3)	2016	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Annual Accomplishment Report	LWUA, DILG, LGUs, WDs	LWUA, DILG, LGUs, WDs	
	Power/Energy														
	Proportion of sitios with electric connections against potential sitios increased	2016	50.00	55.40	60.90	67.51	76.60	87.89	100.00	100.00	100.00	Annual Accomplishment Report	NEA / EC	NEA / EC	Climate change Demographic condition (mountainous, island, dispersed and off-grid areas, calamity prone)
	Proportion of household with electric connections against potential households increased	2016	50.00	64.16	72.81	79.94	86.79	93.44	100.00	100.00	100.00		NEA / EC	NEA / EC	
	Social Infrastructure														
	Proportion of barangays with access to Material Recovery Facilities (MRFs) to total no. of barangays (% , cumulative)	2016	31.85	70	75	80	85	90	95	95	95	NSWMC Annual Reports	DENR- NSWMC/EMB	DENR- NSWMC/EMB	
	Proportion of barangays with access to Sanitary Land Fills (SLFs) to total number of barangays (% , cumulative)	2016	21.87	22.96	24.11	25.31	26.58	27.91	29.3	29.3	29.3		DENR- NSWMC/EMB	DENR- NSWMC/EMB	
Chapter Outcome 2															
Human capital development accelerated															
Sub-chapter Outcome 2.1															
Gaps in basic infrastructure for human capital development reduced	Social Infrastructure														
	Kindergarten	2014	1:341	1:30	1:25	1:25	1:25	1:25	1:25	1:25	1:25	EBEIS	DepEd	DepEd	
	Grades 1-3			1:34	1:32	1:30	1:30	1:30	1:30	1:30	1:30		DepEd	DepEd	
	Grades 4-6			1:40	1:40	1:40	1:40	1:40	1:40	1:40	1:40		DepEd	DepEd	
	Junior High School	2014	1:48	1:46	1:45	1:44	1:42	1:40	1:40	1:40	1:40		DepEd	DepEd	
	Senior High School	TBD	TBD	TBD	TBD	TBD	TBD	TBD	1:40	1:40	1:40		DepEd	DepEd	
	Aggregate Outputs														
	Social Infrastructure														
	Proportion of public schools with connection to electricity to total number of public schools increased (% , cumulative)														
	Primary (K to 6)	2016	86	87	88	90	92	94	95	95	95	EBEIS	DepEd	DepEd	
	Junior High School	2016	95	95	96	97	98	99	100	100	100		DepEd	DepEd	
	Senior High School	TBD	TBD	TBD	TBD	TBD	TBD	TBD	100	100	100		DepEd	DepEd	
	Proportion of public schools with adequate water and sanitation facilities to total number of public schools increased (% , cumulative)														
	Primary (K to 6)	2016	91	92	93	94	96	98	98	98	98	EBEIS	DepEd	DepEd	
	Junior High School	2016	94	96	98	100	100	100	100	100	100		DepEd	DepEd	
	Senior High School	TBD	TBD	TBD	TBD	TBD	TBD	TBD	100	100	100		DepEd	DepEd	

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 19: ACCELERATING INFRASTRUCTURE DEVELOPMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk
		Year	Value	2017	2018	2019	2020	2021	2022					
	Information and Communications Technology (ICT)													
	Proportion of public schools with internet access to total number of public schools increased (% , cumulative)													
	Primary (K to 6)	2016	20	40	60	70	80	90	100	100	EBEIS	DepEd	DepEd	
	Junior High School	2016	54	60	70	80	90	95	100	100		DepEd	DepEd	
	Senior High School	TBD	TBD	TBD	TBD	TBD	TBD	TBD	100	100		DepEd	DepEd	
	Proportion of public schools with computer packages to total number of public schools increased (% , cumulative)													
	Primary (K to 6)	2016	67	95	99	100	100	100	100	100	EBEIS	DepEd	DepEd	
	Junior High School	2016	91	95	99	100	100	100	100	100		DepEd	DepEd	
	Senior High School	TBD	TBD	TBD	TBD	TBD	TBD	TBD	100	100		DepEd	DepEd	
	Chapter Outcome 3													
Asset preservation ensured														
Sub-chapter Outcome 3.1														
Safety and security against natural and man- made disasters, especially for the poor improved	Road traffic accident rate reduced (in number of deaths per 100,000 population) - incidents of accidents	2017	TBD	TBD	None	None	10	10	10	10	Road Safety Action Plan, as basis for 2017 data/ (to include PNP, DOH, and/or LGUs' report)	DPWH, LGUs	DPWH, LGUs	
	Percentage of incidents Responded Over incidents Reported	2015	90%	93%	94%	95%	96%	97%	98%	98%	Actual Data Report	PNP, LGUs and DOH	PNP and DOH	
	Economic losses due to natural hazards reduced	2016	-	decreasing	decreasing	decreasing	decreasing	decreasing	decreasing		LGU and Agency Reports	RDRRMC/ PCM DRRMCs members	OCD	
Chapter Outcome 4														
Technology adoption advanced and innovation stimulated														
Sub-chapter Outcome 4.1														
Innovative solutions and technologies encouraged/adopted	Conserved annual amount of electricity and fuel increased (in kilotons oil	2016									Annual Accomplishment Report	DOE	DOE	

## CHAPTER 20: Ensuring Ecological Integrity, Clean And Healthy Environment

Environment and natural resource services play a very critical role in improving economic condition of the region most particularly along agriculture, urban development and other sectors. Natural resources provide water and other domestic demands in the lowland areas. Any alteration therefore to our natural environment would have a significant impact on the economy of the region, hence, should be sustainably managed and protected. In support to the present administration's goal towards achieving sustainable development on enhancing resiliency against climate change and other natural hazards, the environment and natural resources shall be protected, conserved and maintained through the following overall outcomes and key strategies:

### **Overall Outcome A: Conservation, protection and rehabilitation of natural resources improved**

- Intensity conservation, protection and sustainable management of forest, watersheds, coastal and marine resources;
- Expand areas for ecotourism development and promotion

### **Overall Outcome B: Environmental Quality improved**

- Ensure conformity of air and water quality per environmental standards
- Strengthen enforcement of environmental laws
- Improve management of wastes (solid, toxic and hazardous wastes)

### **Overall Outcome C: Resilience of natural system enhanced with improved capacities of communities**

- Enhance the capacities of concerned agencies/LGUs in preparing for, coming up, mitigating and monitoring the effects of climate change events; and
- Priority attention for strategies, policies and actions along disaster risk reduction and management and climate change adaptation

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 20: ENSURING ECOLOGICAL INTEGRITY, CLEAN, AND HEALTHY ENVIRONMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Societal Goal															
To lay down the foundation for inclusive growth, a high-trust and resilient society and a globally competitive knowledge economy															
Intermediate Goal															
Enhancing the social fabric by building trust in public institutions and increasing growth potential															
Chapter Outcome															
Improved conservation, protection and rehabilitation of natural resources															
Sub-chapter Outcome 1															
Forests , watersheds and coastal resources sustainably protected/ managed	Forest cover increased (million hectare)	2010	1,573	1,589	1,605	1,621	1,637	1,653	1,67	1,67	Land cover map	DENR	DENR	Deforestation is controlled	
	Survival rate of planted seedlings increased (%)	2016	83	85	85	85	85	85	85	85	Progress Report	DENR	DENR	At least 80-85% survival rate of planted seedlings	
Aggregate Outputs															
	Area for reforestation and rehabilitation increased (hectare) (incremental)	2016	18,690	16,121	8,661	7,434	7,234	7,234	6,734		Accomplishment Report submitted and Proposals or Forward estimates for 2019-2022	DENR	DENR	Occurrence of extreme events (e.g. typhoon, drought)	
	No. of seedlings planted	2016	16,812,449.00	17,470,695	8,166,928	7,010,262	6,821,662	6,821,662	6,350,162	52,641,371		DENR	DENR		
	Forest area maintained increased (hectares)	2016	40,925	43,203	34,902	57,086	49,690	46,684	37,297	268,862		DENR	DENR		
	Protected Areas (PAs) sustained	2016	14	15	15	15	15	15	15	15		DENR	DENR	Functional PAMBs, with strong	
	Patents Issued (no.)		3,303	2,453	2,074	2,042	1,980	1,922	1,855	12,326		DENR	DENR		
	Residential Free Patent Act (REPA-RA10023)	2016	2,237	1,722	1,674	1,590	1,540	1,487	1,435	9,448		DENR	DENR		Support of stakeholders Funding Support
	Agricultural (CARP)	2016	1,052	710	383	452	440	435	420	2,840		DENR	DENR		
	Commercial and Industrial	2016	14	21	-	-	-	-	-	21		DENR	DENR		
	Special Patents (Tilting of Government lands for public and quasi-public use)	2016	-	-	17	-	-	-	-	17		DENR	DENR		
	Coastal Areas managed and protected (hectares)	2016	1,650	1,619	1,608	1,750	1,750	1,750	1,750	10,227		DENR	DENR		
	Coral reefs	2016	1000	739	965	700	700	700	700	4,504		DENR	DENR		
	Sea grass	2016	650	880	-	450	450	450	450	2,680		DENR	DENR		
	Mangroves	2016	-	-	643	600	600	600	600	3,043		DENR	DENR		
	Ecotourism area developed (no.)														
	o DOT	2016	-	1	1	1	1	1	1	6		DOT/DENR	DOT DENR		
o DENR	2016	2	1	1	-	2	-	-	4						
Ecotourism Sites maintained	2016		5	6	7	8	9	10	10	DENR					
Aggregate Outputs															
	Reforestation area in mining sites increased (declared disturbed area during the mined out of the company)	2016	647	804	41	60	28	28	32	993	Accomplishment Report	MGB	MGB		
	Mineral production increased <sup>e</sup> (Metallic & non-metallic-MT)	2016	86,860	86,000	86,000	86,000	86,000	86,000	86,000	86,000		MGB	MGB		
	o in MT (by wt)		2,067,145	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000					
	Revenue generated on mineral production increased	2016	14.0 B	15.4 B	17.0 B	18.6 B	20.5 B	22.6 B	25.0 B	25.0 B		MGB	MGB		

**Notes:**  
a Actual data as of December 2016, or most recent available data. May not necessarily be year-end values.  
b May either be the cumulative or incremental target value at the end of the Plan period.  
c Agency accountable for delivering the outputs/achievement of outcomes.  
d Lead agency responsible for reporting progress on indicator targets.  
e On Mineral Production: Target is a client dependent (for existing mining contracts/ permits only, excluding cancelled and expired permits). Revenue- Increased by 10%

**CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRICES 2017-2022**  
**CHAPTER 20: ENSURING ECOLOGICAL INTEGRITY, CLEAN, AND HEALTHY ENVIRONMENT**

Objectives/Results	Indicator	Baseline <sup>a</sup>		Annual Plan Targets						Plan End-of-Plan Target <sup>b</sup>	Means of Verification	Responsible Agency <sup>c</sup>	Reporting Entity <sup>d</sup>	Assumptions and Risk	
		Year	Value	2017	2018	2019	2020	2021	2022						
Sub-chapter Outcome 2															
Improved environmental quality	Improved Air Quality														
	PM 2.5 concentrations in the region and other major urban centers are within the Annual Total Suspended Particulates (TSP) Average Guideline value of 90 microgram per Normal cubic meter (µg/Ncm)	2016	92.60 µg/Ncm	Less than 90 µg/Ncm	Less than 90 µg/Ncm	Less than 90 µg/Ncm	Less than 90 µg/Ncm	Less than 90 µg/Ncm	Less than 90 µg/Ncm	Less than 90 µg/Ncm	Less than 90 µg/Ncm	Accomplishment/ Air Quality Status Report	EMB	EMB	Functional Air Quality Monitoring Stations; Regulated sources of Air pollution
	PM10 concentrations in the region and other major urban centers are within the Annual PM 10 Average Guideline value of 60 microgram per Normal cubic meter (µg/Ncm)	2016	15.64µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	0-54 µg/Ncm	EMB	EMB	
	Monitoring of Private Emission Testing Centers (PETCs) – No. of PETCs monitored	2016	40	40	40	40	40	40	40	40	240	Accomplishment/ Air Quality Status Report	EMB	EMB	
	Improved water quality														
	Water quality of priority river systems based on the Biochemical Oxygen Demand (BOD) water criteria improved and within the designated water body classification	2016	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	BOD not more than 5 mg/liter of water	Regular Water Quality Monitoring Report	EMB	EMB	
	Improved waste disposal														
	No. of LGUs (Prov, Cities, Mun) compliant with proper Ecological Solid Waste Management System (ESWM)														Availability of funds and strong support from LGUs
	No. of Solid Waste Management Plan (i.e 10 year) reviewed/evaluated	2016	11	11	11	11	11	11	11	11	66	Accomplishment Report/Monitoring Report	EMB	EMB	
	Provision of Technical Assistance for the Establishment of Sanitary Landfill	2016	1	1	1	1	1	1	1	1	6		EMB	EMB	
	Compliance Monitoring of Toxic and Hazardous Waste Management Facilities (Generators) conducted	2016	150	150	150	150	150	150	150	150	900		EMB	EMB	
	Geological assessment of proposed Sanitary Land fill sites	2016	6	15	10	10	10	10	10	10	Client-Driven		MGB	MGB	
Sub-chapter Outcome 3															
Increased adaptive capacities and resiliency of ecosystems and communities	No. of LGUs (Prov, Cities, Mun, barangays) trained/capacitated on DRRM/CCA increased	2016	9	40	50	60	70	80	93	93	Accomplishment Report	OCD/ PLGUs/DILG	OCD/ DILG	Availability of funds and strong support from LGUs	
	Number of LGUs (Prov, Cities, Mun., Brgys.) with functional DRRM offices and operation Centers increased	2016	9	40	50	60	70	80	93	93		OCD/ PLGUS/DILG	OCD/ DILG		
	No. of municipality with updated Geo-hazard maps (1:10,000) used in risk reduction planning increased	2016	7	15	15	15	15	15	18	93		MGB	MGB		
	Number of new LGUs with completed vulnerability assessments and climate and disaster risk assessment (CDRA) (incremental)	2016	0	15	15	15	15	15	15	15		90	DILG	DILG	Availability of resources at the LGU level
	Number of LGUs with operating early warning systems (EWS) in place increased	2016	-	3	3	3	3	2	2	16		DOST	DOST		
	Number of approved CC/DRRM-enhanced plans /LCCAP/CDP/CLUPs	2016	0	15	15	15	15	15	15	8		83	DILG	DILG	



## **CAGAYAN VALLEY REGIONAL DEVELOPMENT PLAN RESULTS MATRIX 2017-2022**

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