

2027

Creative

innovation hub

design, motion

for graphics

capture, and

audio post-

production;

Personalized

sound control

device

VISION

By 2030, the

become top

Philippines will

creative economy

in ASEAN in terms

Updated as of 21 September 2023

OVERALL STRATEGIES

Facilities and Services

- Establishment of Animation Studio Facilities
- Establishment of Extended Reality Laboratory
- Establishment of "Pugad Sining" / Creative Innovation Hub for Graphics Design, Motion Capture, and Audio Post-Production
- Establishment of Volume Technology Studio
- Establishment of Holographic Environment Simulator
- Establishment of a Creative City for Game, Animation, and Film

Human Resources

- Industry-defined trainings on game design and game
- Publish standard / baseline processes
- Capability and capacity building to produce hardware

R&D Technologies

Game Development:

- Development of serious games and gamification apps in education, tourism, cultural preservation, and corporate
- Development of game engine and framework
- Development of input modalities for VR app simulation and training
- Digitization of traditional sports and AI for game analytics
- Development of proprietary software and software-as-aservice
- Application of blockchain for asset management, royalty monitoring, and intellectual property processing
- Prototyping of advanced gaming devices
- Development of brain-to-computer interface

Animation:

- Development of database for Philippine indigenous
- Automatic music generation and AI-assisted sound
- Process R&D for creative look and feel / graphics design
- Motion capture technology for facial, body, and hand
- Integration of AI in 3D animation / character simulation
- Development of real-time translation for bilingual conversation
- Prototyping of advanced animation tools

R&D Technologies

Film Development:

- Development of algorithmic video editina
- Development of 3D previsualization software
- Application of high-end real-time rendering technologies
- Development of personalized sound control technology Development of autonomous
- drone cinematography system Intelligent screenplay writing
- through AI Volume technology for
- immersive digital filmmaking

S&T Policies

- Development of policy on using blockchain in gaming industry
- Protection of trade secrets and company pipelines
- Strengthen policy on piracy

150 M

Establishment of Volume Technology Studio; Application of volume tech for immersive filmmaking; Application of blockchain in gaming industry; Motion capture technology for facial, body, and hand gestures; Development of input modalities for VR app simulation and training; Development of metaverse platform with digital NFT marketplace; Process R&D for creative look and feel / graphics design technique

60 M

Establishment of Extended Reality Laboratory; Development of serious games for tertiary education, cultural preservation, and corporate sector; Development of proprietary software and software-as-a-service: Development of game engine and framework

50 M

Establishment of Animation Studio Facilities; Development of serious games for primary and secondary education and tourism; Development of human-computer interface products; Development of database for indigenous sounds

2022

Serious games for secondary education and tourism

...2021

Serious games for primary education; Human-computer interface products: Animation Studio Facilities: Database for indigenous sounds

R&D SOLUTIONS

150 M

Development of

150 M

Digitization of 3D pretraditional sports and visualization Al for game analytics; software; Development of Application of algorithmic video high-end realediting: Automatic time rendering music generation and technologies; Al-assisted sound Development of engineering; personalized Integration of artificial sound control intelligence in 3D technology animation; Development of realtime translation for

bilingual conversation

2023

Proprietary

software-as-

software

a-service

and

2024

Extended Reality Lab: Serious games for tertiary education, cultural preservation, and corporate sector; Game engine and framework: Algorithmic video editing

of "Pugad Sining" / Creative Innovation Hub for Graphics Design, Motion Capture, and Audio Post-Production

2025

studio:

capture

software;

Metaverse

Volume tech

Blockchain in

gaming; Motion

platform; VR app

training; Process

simulation and

documentation

for graphics

design

technique

200 M

Establishment

2026

Digitized

Real-time

rendering

software

traditional sports

and Al-assisted

game analytics;

Al-assisted sound

engineering; 3D

translation; 3D

animation with Al:

previz; Real-time

Holographic **Environment Simulator:** Prototyping of advanced gaming devices and animation tools; Development of autonomous drone cinematography system

200 M

Establishment of

200 M

Establishment of a Creative City for Game, Animation, and Film: Development of brain-to-computer interface in games; Intelligent screenplay writing

2028...

Holographic Environment Simulator: Gaming and animation hardware prototypes; **Autonomous** drone cinematography system

of size and value of our creative industries driving

competitiveness and attractiveness of our creative talent and content in international market.

MILESTONES

OVERALL OUTCOME

Locally developed software and hardware, established facilities, and trained personnel for the advancement of the Philippine creative industries



OneDOST4U



List of Creative Industry Projects (for the whole duration of the roadmap)

R&D Technologies	Project Title	Budget Allocation ('000)							
		2022	2023	2024	2025	2026	2027	2028	Status
Creatives (Gaming, Film, Animation)	Imahe Labs: An Educational Game in Chemistry for the Senior High School and Junior High School Sectors of Baguio City	2,785,200.50							Completed (PCIEERD-GIA)
	iJuanderer : An Augmented Reality-based Gamified Local Tourism and Cultural Heritage Promotion and Preservation	991,154.00							Completed (PCIEERD-GIA)
	Nurturing Interest in STEM Among Filipino Learners Using Minecraft	3,366,984.28							Completed (DOST-GIA)
	Stunt Science : A Physics Simulator Mobile Game	2,771,008.00							Completed (PCIEERD-GIA)
	A Game-based Mobile Learning Platform for Social Studies	1,540,501							Completed (PCIEERD-GIA)
	Haynayan AR: An Augmented Reality-Based Lesson for the Improvement of Learning Achievement in Cell Biology for the STEM Curriculum	955,754.00							Completed (PCIEERD-GIA)
	Handum: The Design, Implementation, and Analysis of a Digital/Mobile Game-based Learning Tool for Primary and Secondary Education	10,845,376.00							Completed (PCIEERD-GIA)
	Development of a Local Cloud-Based Digital Apparel Prototyping Platform of the PTRI- Textile Product Development Center as a Response to the "Now Normal"	3,563,963.53	1,772,726.33						Ongoing (DOST-GIA)
	SandPix: A Sand-Based Image Printing Technology	5,125,328.00	1,273,711.20	434,200.00					Ongoing (PCIEERD-GIA)



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R&D Technologies	Project Title								
		2022	2023	2024	2025	2026	2027	2028	Status
Creatives (Gaming, Film, Animation)	A Laboratory and Game Engine /Framework for Tertiary-Level Virtual, Augmented, and Mixed Reality (VAMR) Applications		5,558,982.30	4,439,238.30					Ongoing (PCIEERD-GIA)
	Serious Games for Promoting Coherent Knowledge and Developing Critical and Problem Solving Skills in Tertiary Mathematics			5,355,144.00	4,615,144.00				Ongoing (PCIEERD-GIA)
	Volume Technology for Immersive Filmmaking				23,294,731.38	12,622,662.90			Ongoing (DOST-GIA)
	CrimeXperience: Immersive XR Crime Scene Simulation in the Philippine Context			6,114,771.20	4,787,846.20				Ongoing (DOST-GIA)



