DRIVING
DIGITAL
INNOVATION
IN CAMBODIA

# CADT
បណ្ឌិត្យសភាបច្ចេកវិទ្យាឌីជីថលកម្ពុជា
Cambodia Academy of Digital Technology

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# Digital Research and Innovation

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# Outline

- STI Roadmap 2030

- Institute of Digital Research and Innovation of CADT

# STI Roadmap 2030

- Royal Government of Cambodia has published STI roadmap 2030 on 26 Jul 2021.

- Its vision is that STI is a driving force for sustainable socio-economic development.

# Cambodia's STI Roadmap 2030

**5 Pillars**



**Vision 2050**

Socio-Economic

Governance · Education · Research · Collaboration · Ecosystem

National Plans and Policies
National STI Policy
Rectangular Strategy Phase 4

## Governance
**Enhancing the governance of the STI system** – by 2021, MISTI is the Lead Coordinator for the STI policies and sets the direction of STI policy and Research Agenda together with NCSTI

## Education
**Building human capital in STI** – by 2030, 50% of university students are in STEM, of which 40% are women

## Research
**Strengthening research capacity and quality of research** – by 2030, the Country dedicates 1% of its GDP to research and development

## Collaboration
**Increasing collaboration and networking between STI stakeholders** – in 2025, 3 technology and innovation parks and clusters are fully operational and a University-Industry Linkage Office is in place in 5 universities from 2023

## Ecosystem
**Fostering an enabling ecosystem for building absorption capacities in firms and attracting investments in STI** - by 2030, half of the Country R&D expenditures comes from the business sector

# Pillar 3: Research

**Policy Targets**



- Adopt a 5-year National Research Agenda.
- Setup a national fund by 2023.
- Increase investment on R&D and innovation to 1% of GDP, 0.5% will be from public.
- Increase number of researchers in public sector to 700 researchers per million by 2030.
- Increase number of scientific publication to 1500 by 2030.
- Establish and support 7 research-intensive university or research center of excellences by 2025.

# CADT
# IDRI

វិទ្យាស្ថានស្រាវជ្រាវ និង នវានុវត្តន៍ឌីជីថល
**Institute of Digital Research & Innovation**

- Established by a sub decree on 15$^{th}$ Nov 2021
- IDRI is a public research institution under the Cambodia Academy of Digital Technology in charge of research and development in digital technology and digital innovation and entrepreneurship promotion.

# Mission

(1) R&D and technology transfer on digital technology focusing on emerging technologies

(2) Promote digital innovation and technopreneurship.

(3) Conduct policy research on digital technology and its impacts on the economy and society.

(4) Recognize digital talent.

**CADT IDRI**

វិទ្យាស្ថានស្រាវជ្រាវ និង នវានុវត្តន៍ឌីជីថល

**Institute of Digital Research & Innovation**

## R&D Center

1. Khmer Natural Language Processing
2. Cyber Security
3. Data Science
4. AI
5. IoT

## Innovation Center

1. Digital Makerspace
2. Co-Innovation Space
3. Accelerator programs
4. Event/Conference

## Innovation Policy Think Tank

1. Internet Development Study (UNESCO)
2. Digital Government Policy (MPTC)
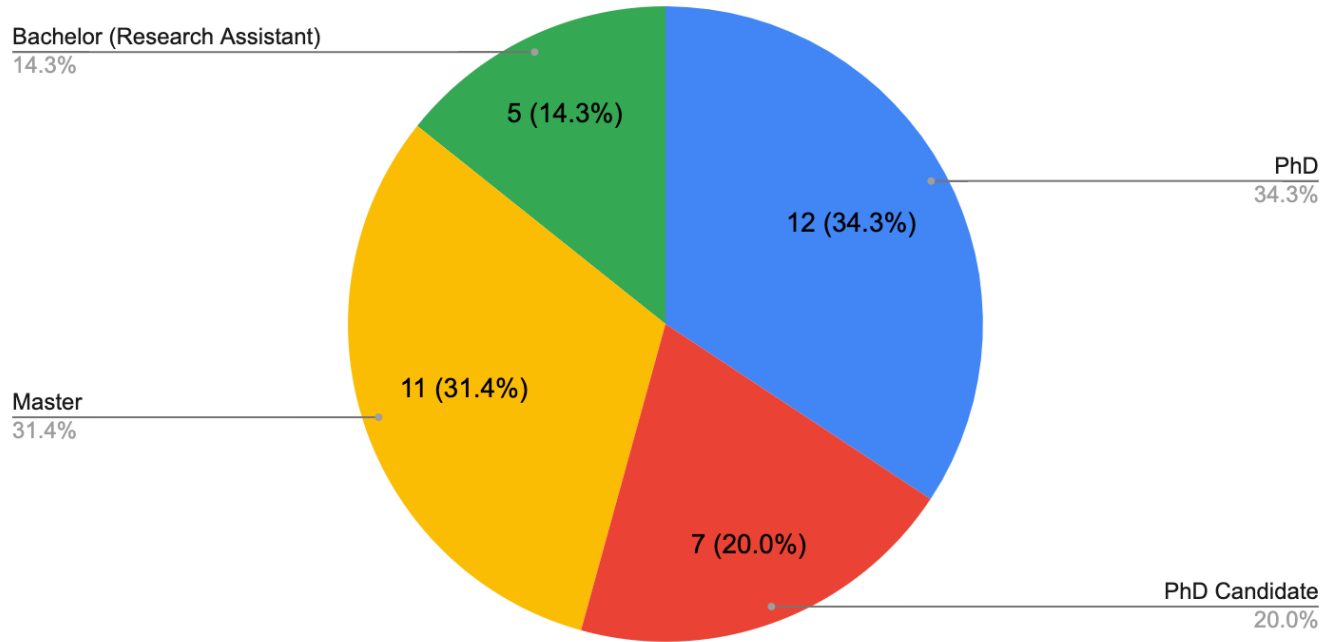3. Startup Report (MPTC)

**R&D CENTER**

# Research Principles

- Build a sustainable research team
- Focus on applied research (Adopt, Adapt and Deploy) to address local problems
- Contribute to teaching and training program
- Join research community & networks

# Research Teams

## TOTAL : 35 Staffs



Bachelor (Research Assistant)
14.3%

5 (14.3%)

PhD
34.3%

12 (34.3%)

Master
31.4%

11 (31.4%)

7 (20.0%)

PhD Candidate
20.0%

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# Research Partners

# DIGITAL INNOVATION CENTER

Support and Develop

Cambodia Digital

Innovation Ecosystem

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**Digital Innovation Center**

# Functions

## Makerspace

This space is open to kids, adults, and entrepreneurs with maker equipment including 3D printers, laser cutters, cnc machines, soldering irons, electronic tools, power tools etc.

## Co-Innovation Space

It's a place for incubate and accelerate digital innovation and startups, and a hub of digital ecosystem players.

## Event Space

We offers event venue for tech conferences and exhibitions, ecosystem meetings, networking events, upskill workshops, and press conferences etc.

# Makerspace Functions



Robotic, Coding, AI

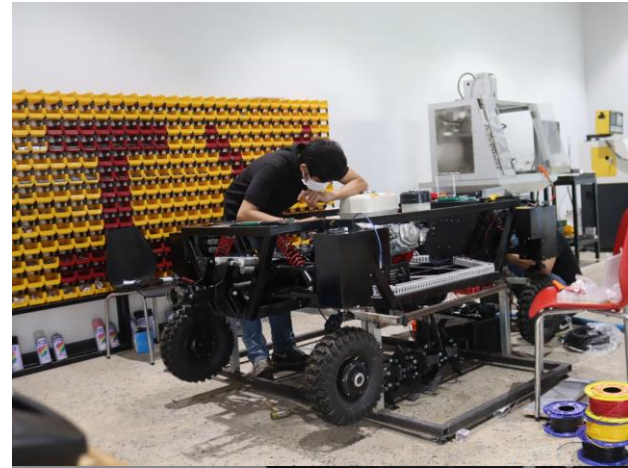Digital Fabrication

Woodwork

Textile, Chem/Bio

Electronics

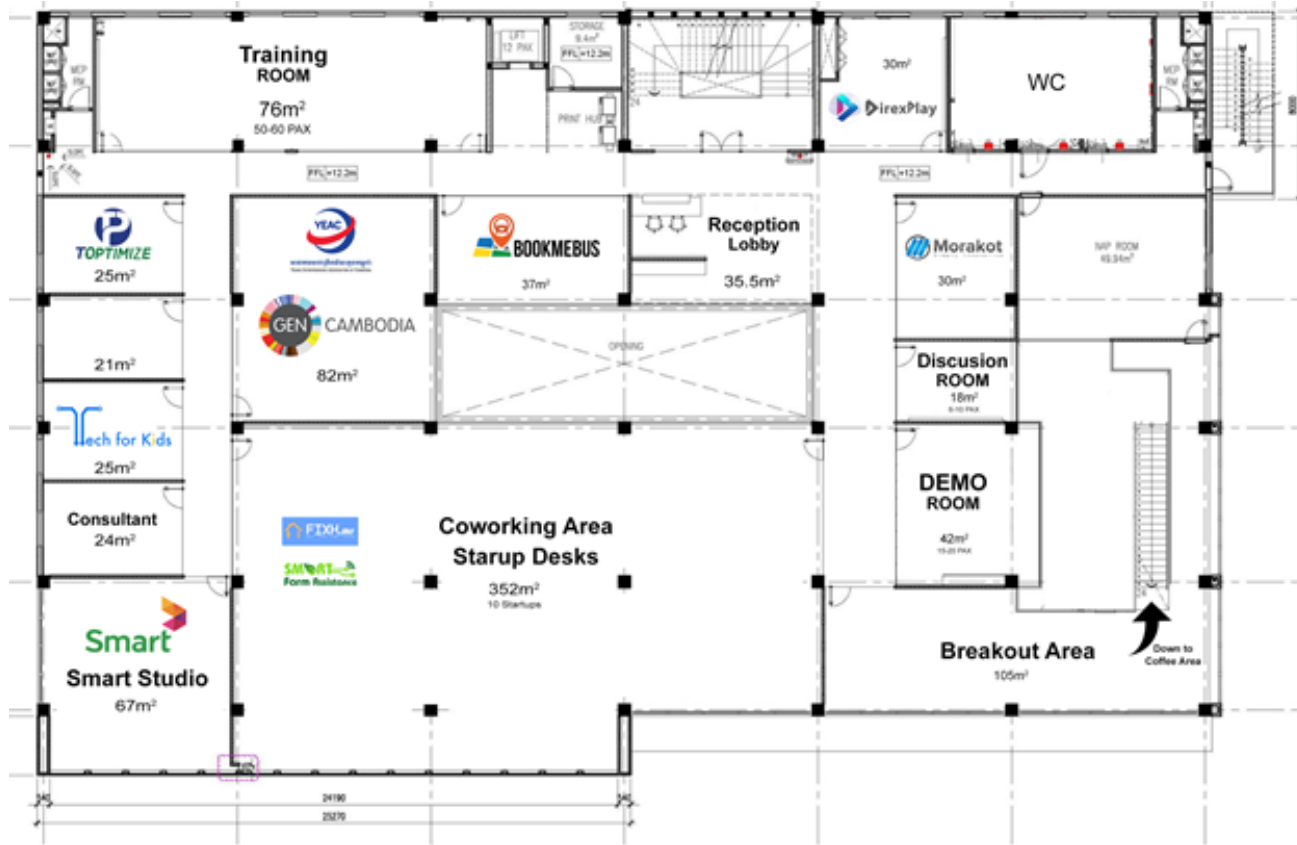Metalwork

VR

Live-streaming, 3D scan

# Makerspace

# Co-Innovation Space

# Digital Startup Floor

# Event Space

# Cooperation to Support Digital Innovation Center