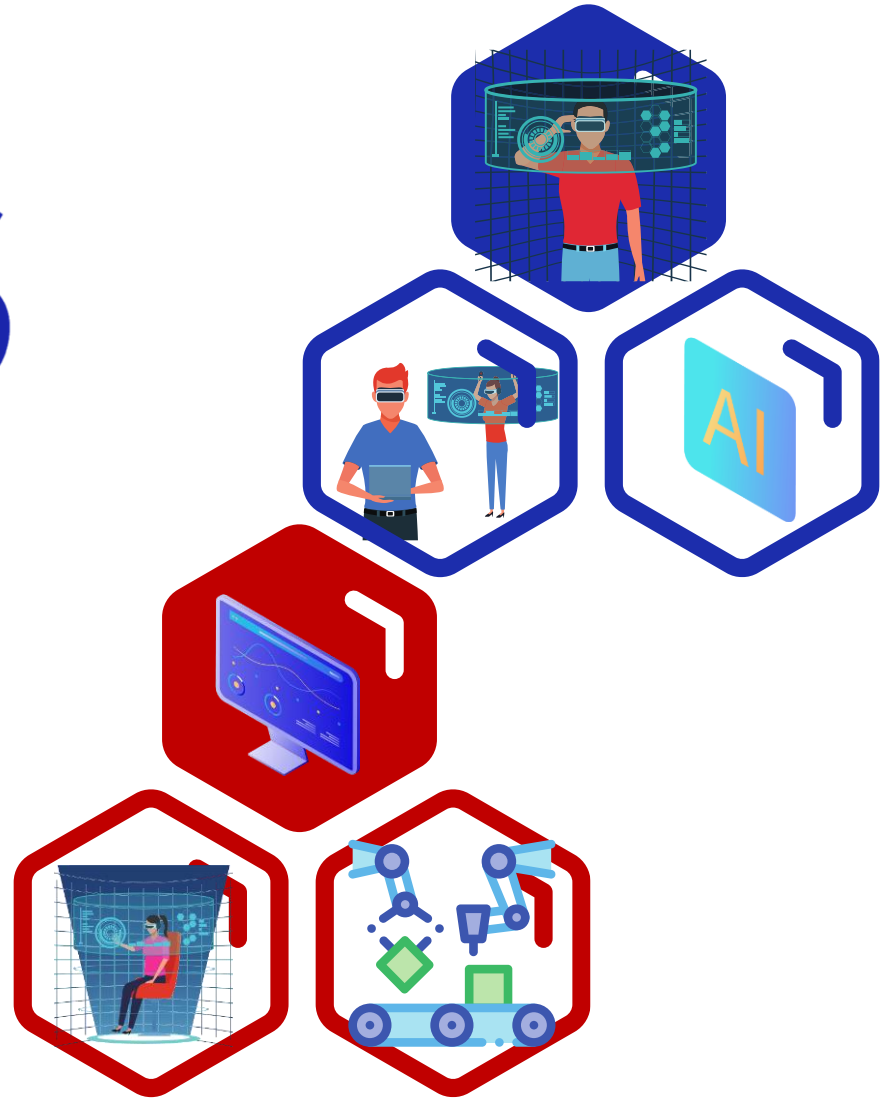
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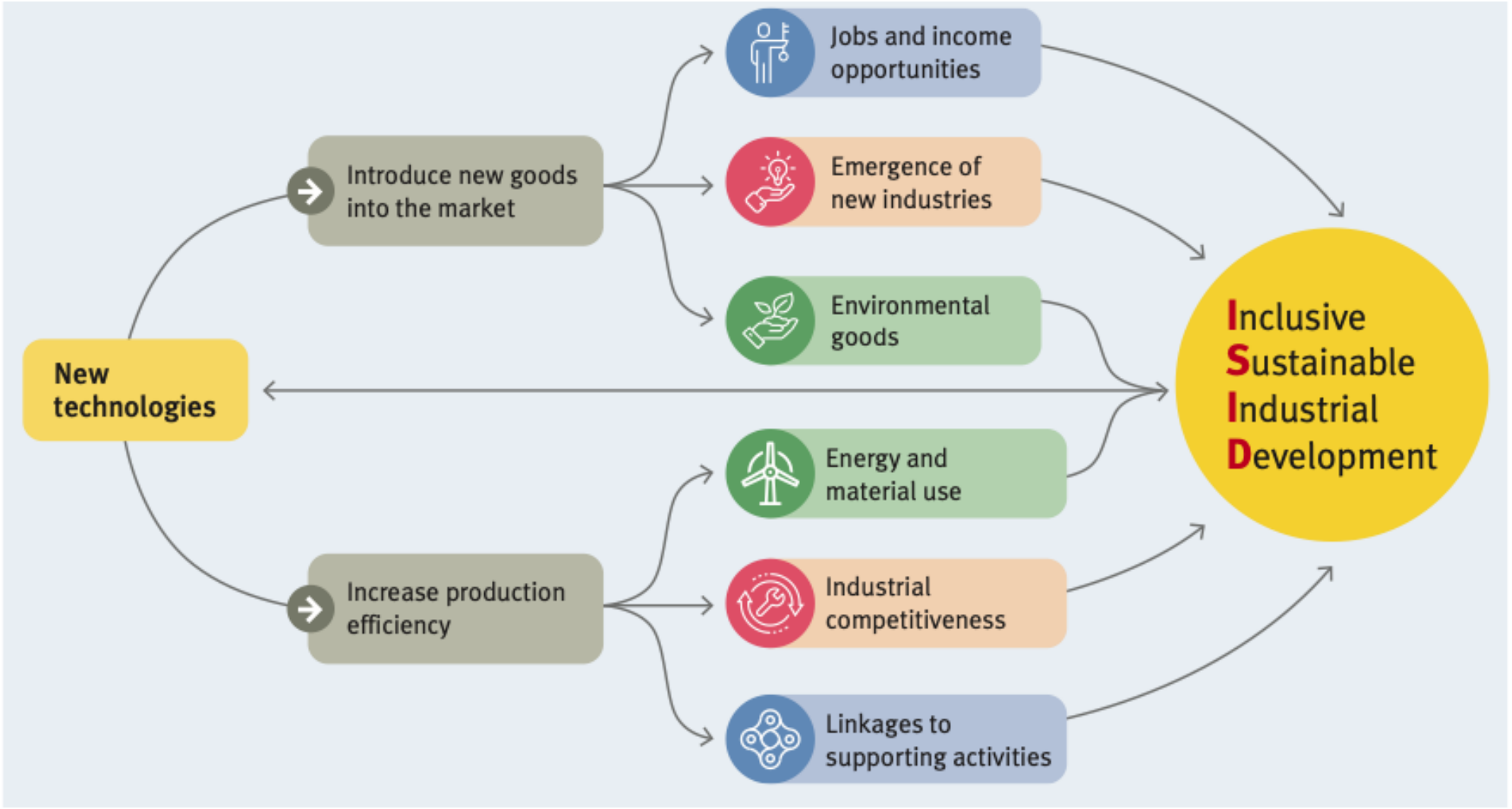
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Next Era Begins: Philippines Poised for Growth





Science, technology, and innovation to drive inclusive and sustainable industrial transformation and development for the Philippines



Competition, Innovation, Productivity, Dynamic Industry Ecosystem:
Foundation to generate quality jobs, investments, new products & services, shared prosperity

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“The Philippines *will embrace* science, technology, and innovation (STI) to drive inclusive and sustainable industrial transformation and development.”

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Science, Technology, and Innovation-based Industrial Strategy

to grow globally competitive & innovative industries

Embrace Industry 4.0

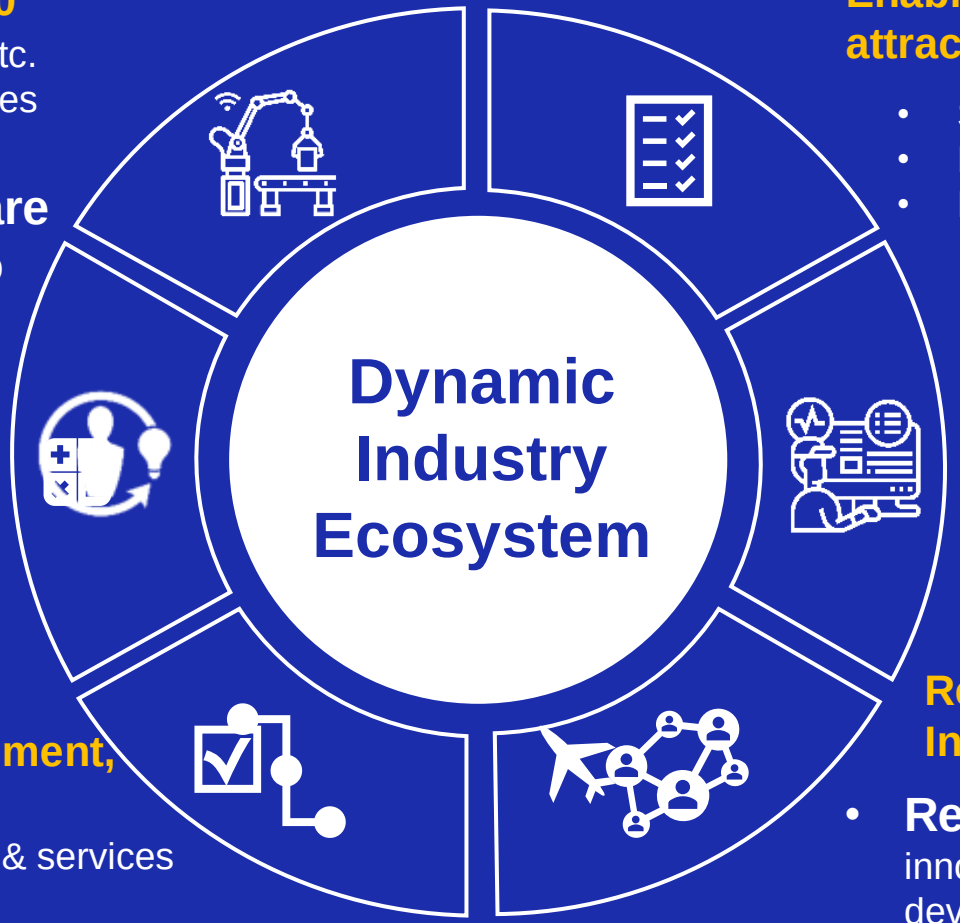
- Smart Manufacturing, AI, IIoT, 5G, etc.
- Leapfrog to new & emerging industries
- **Transform industries towards an increasing share of STI-intensive sectors to GDP**

Innovative MSMEs & Startups

- **Upsize MSME & accelerate their growth**
- Prepare SMEs for digital transformation
- Build robust startup ecosystem

Integrate Industry Development, Trade and Investment

- Link manufacturing with agriculture & services
- Deepen GVC participation
- **Expand trade & investment**



Enabling Economic Environment to attract more investments

- Simplification of processes, automation
- Power, logistics, infrastructure
- LGU competitiveness

Upskill/Reskill Workforce

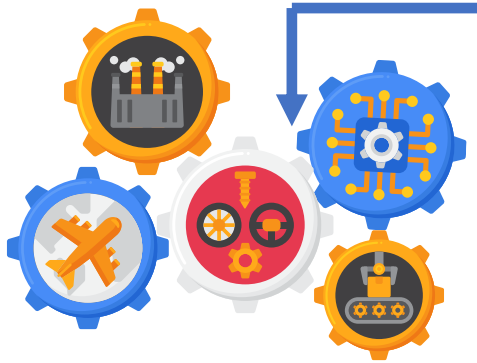
- Build STI & research capabilities
- Upgrade education curricula
- Skills training programs, improve digital skills

Regional development, Innovation, Entrepreneurship

- **Regional industrialization** through innovation & use of essential technologies for development of regional industries
- Creation of new products, services, business models
- Promote research commercialization

Priority Industry Clusters : 2022-2028

Global Reconfiguration



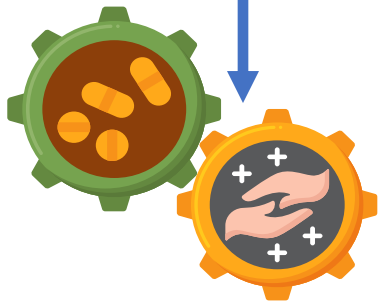
Industrial, Manufacturing and Transport (IMT)

- Aerospace manufacturing and maintenance, repair and overhaul (MRO)
- Automotive and Electric Vehicles & Parts Manufacturing
- Semiconductor manufacturing services and Electronic manufacturing services
- Green metals (Nickel, Cobalt, Copper) processing
- Advanced manufacturing technologies



Technology, Media, And Telecommunications (TMT)

- IT-BPM, Hyperscale data centers
- Creative economy and digital economy
- Products/services using AI, robotics, Augmented/Virtual/Mixed Reality, 5G, and Internet of Things
- Smart home and building technology
- Disaster and Resilient technology
- Audio, video, education technology,
- Vehicle technology
- E-Gaming
- Metaverse



Health and Life Sciences (HLS)

- Life sciences and biotechnology sector
- Pharmaceuticals
- Medical devices
- Healthcare services
- Digital health products and services such as personal health wellness technology products, smart watches, lighter health wearables, more precise sensors, therapeutic systems addressing chronic diseases, telemedicine solutions and AI assisted diagnoses



Modern Basic Needs, Resilient Economy

- Food security, agriculture and agro-industrial, fishing
- Infrastructure, education, shelter, sanitation
- Integrated steel
- Textile
- Chemicals and Plastics
- Renewable Energy
- Energy efficiency
- Green ecosystems

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Strengthened in Digital Infrastructure

Robust and sustainable infrastructure

- Jupiter Cable System
- Starlink (operated by SpaceX)
- Telco Infrastructure
  - SBA Towers
  - America Towers
- Coordination with DICT



INDUSTRY 4.0 & DIGITAL TRANSFORMATION INITIATIVES



INDUSTRY 4.0 PILOT FACTORY

DTI is building an Industry 4.0 Pilot Factory to host demonstrations and case applications of Industry 4.0 technologies that local large enterprises, SMEs, & academe can access

- **A cyber-physical PoC/didactic line is a modular set to conduct PoCs, and conduct practice exercises for Industry 4.0 courses**







- **Pilot, demonstration and learning laboratories** with innovative products, modern technologies and digital processes
- **Technology platform** for various stakeholders from industry, academe, & government
- Serve as a **training and research hub** where industries can have insights and hands on experience on various Industry 4.0 applications
- The pilot factory will facilitate industry **access to advanced manufacturing technologies** **like** robotics, intelligent manufacturing systems, cyber-physical systems

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The Center for AI Research (CAIR)

AI will contribute $92B to GDP by 2030 / 12% of PH GDP

A **public-private partnership** hub for data scientists & researchers to

- Perform **collaborative AI R&D and technology application** among government agencies, universities, research institutes, startups, SMEs, domestic large enterprises and MNCs
- Offer **consultancy services and AI tech products**
- Conduct data literacy programs and develop learning modules to **upskill and reskill the workforce**
- Attract leading global firms to **set up R&D activities** in the country



Focus Areas: Manufacturing | Services | Precision Agriculture | Construction | Finance/banking | Healthcare | Resilience Technology | Smart Cities

50+ tech startups in the Philippines are already using AI as a core technology in their business model

Fintech / E-Commerce / Digital Health / Sensors / Digital Services

senti · AI4GOV · aiah · CAWIL.ai · RUMAROCKET · PRAGTECHNOLOGIES · TechAguru · RETAILGATE · Thinking Machines Data Science · SATOSHI CITADEL INDUSTRIES · tangere · eleqt · instalimb · paylance · ONEWATT · PEZ AI

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Industry 4.0 Pilot Factory Space and Building Blocks

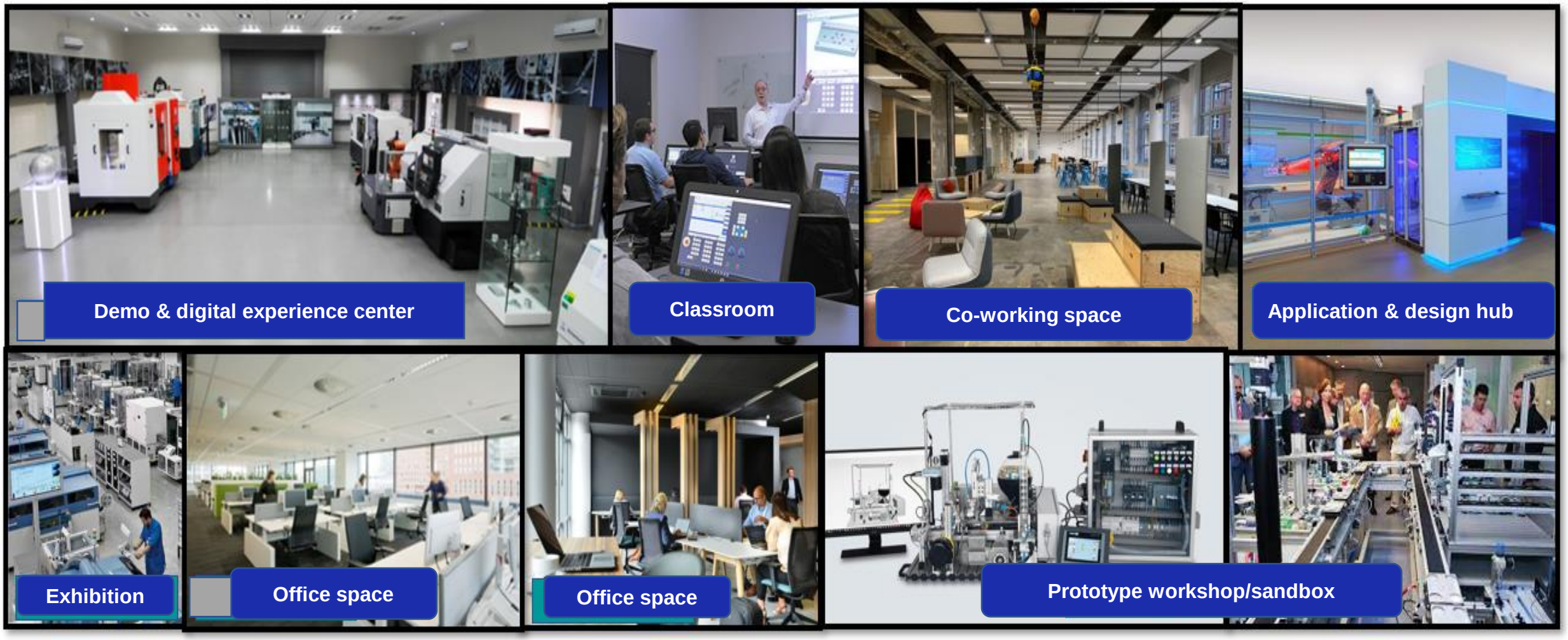


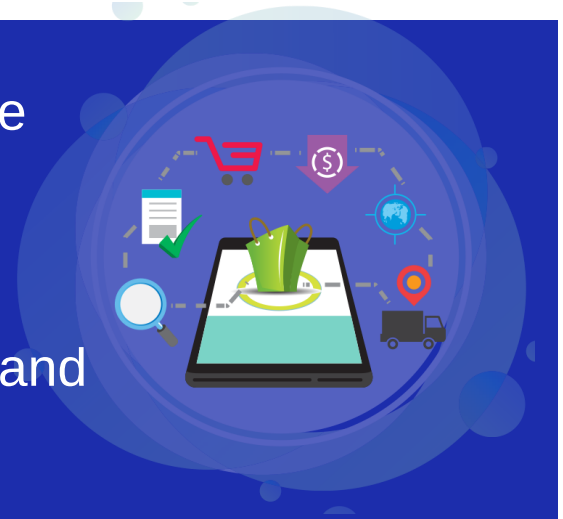
Image Sources: Siemens

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DTI-DICT Digital Platform Supporting MSMEs' Business Needs

An **integrated, accessible, and fully digital market platform** to serve the needs of MSMEs

- free e-commerce website development platform
- increase the e-commerce penetration of MSMEs
- link MSMEs with providers of finance, inputs/raw materials, marketing, and other business services





EMPOWER PH
A collaborative online platform that connects various stakeholders and manufacturers to **facilitate and accelerate the production and distribution of personal protective equipment (PPE)** in the country.



Trabaho and Negosyo Skills Pathway
Composed of **tracks on entrepreneurial skills for online enterprises** and digital skills pathway for MSMEs

CTRL + BIZ: Reboot Now!
Series of free webinars that are targeted to MSMEs who need to **transform their business digitally**



ASEAN SME Academy
A **one-stop multi-platform online learning and information resource** which aims to provide training and mentorship to **enhance ASEAN SMEs' capabilities to grow and compete** regionally and internationally



Tech Tools for MSMEs during COVID19
A Google site developed by DTI to **provide information to MSMEs on the different technology tools, applications, platforms and resources** available in coping with the challenges of the community quarantine.

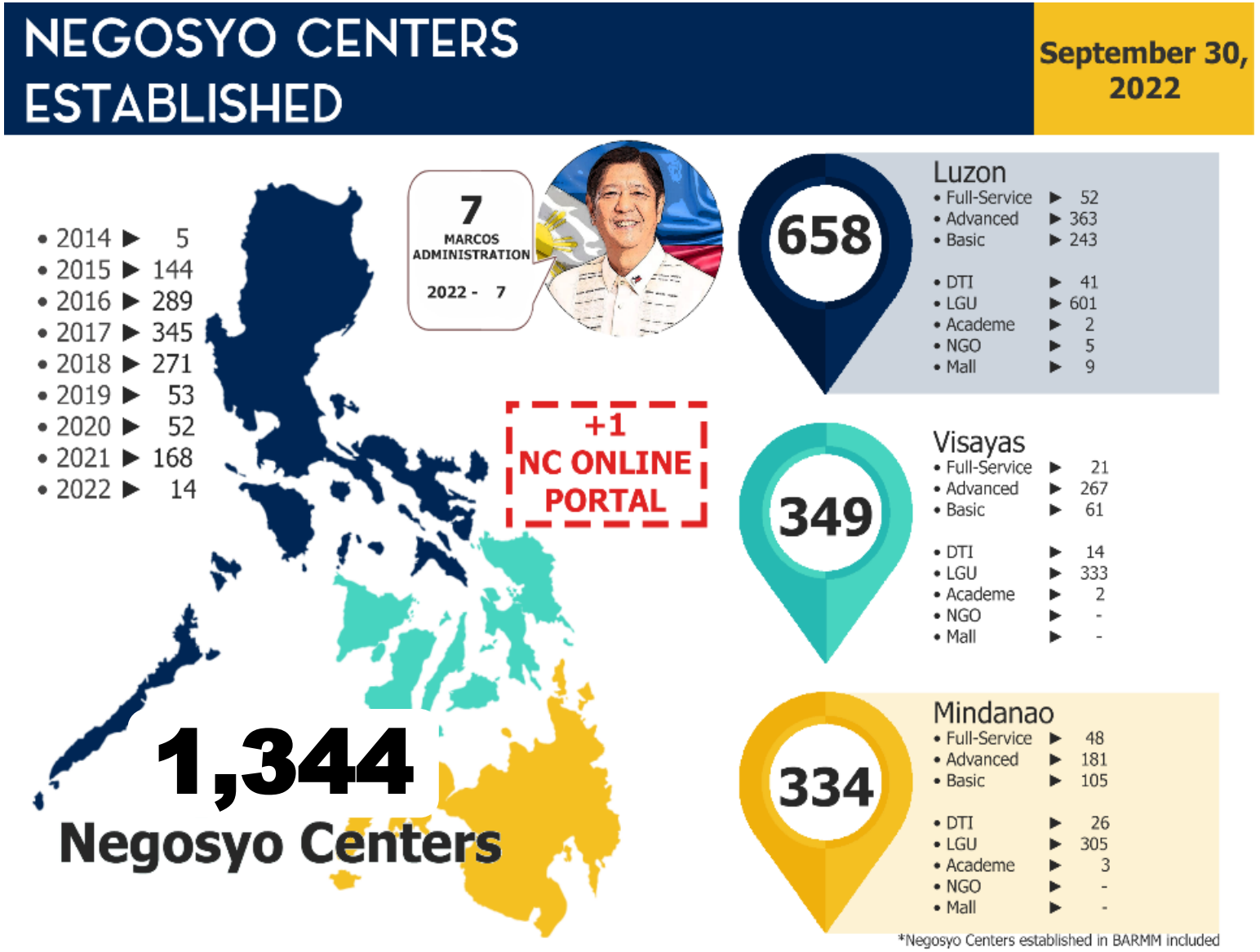




Online Natl. Food Fair
Initiative to keep the National Food Fair ongoing while maintaining safety during the pandemic

ReSTART
Aims to help re-start the micro-retail sector through **Access to Resources and Trade Program**

"DTI has established 1,344 Negosyo Centers throughout the country, covering all cities and 66 percent of municipalities."



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MSMEs Access to Finance

SBCorp implements the Pondo sa Pagbabago at Pag-asenso or P3 program.

- **P3 offers affordable interest rates and charges** that suit the capacities of enterprise borrowers with relatively small asset size and business centers in the poorest provinces.
- Along similar lines, the **RISE UP loan program** provides MSMEs that have hurdled the pandemic with **multi-purpose loans on soft terms**.

RISE UP with SBCorp

Bayanihan CARES

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Onboarding MSMEs to embrace Digital Transformation

To support MSMEs, DTI will initiate and onboard MSMEs to e-commerce

Aside from the challenge of access to finance, we are enabling MSMEs to embrace digital transformation. This way, MSMEs can operate efficiently, **reduce costs, reach bigger markets, and earn profits**.

















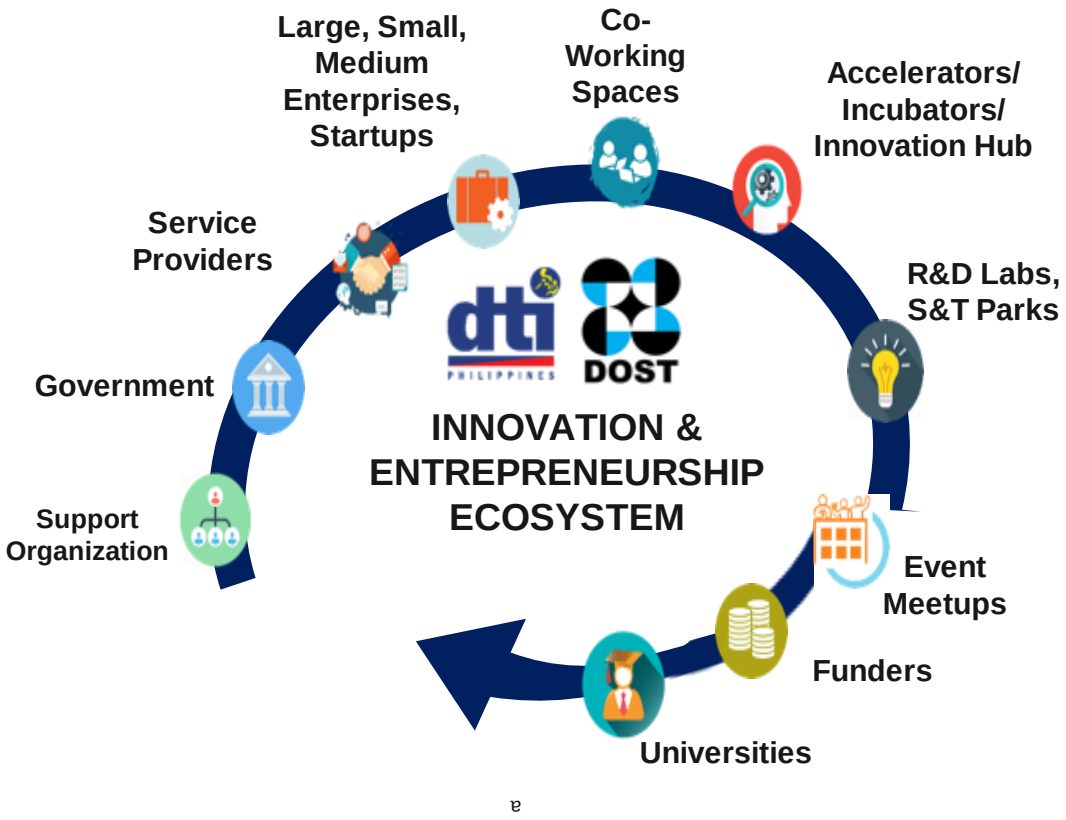
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Regional Inclusive Innovation Centers (RIICs)

Supporting MSME Development through Science, Technology, and Innovation

Networks of creative communities & innovative and entrepreneurial Filipinos, driven by their desire to do things better, provide solutions, make better products, and address market demands, supported by Strong Government-Industry-Academe Collaboration

SHINE Cagayan Valley: Sustaining Harvest through Innovation & Nurturing Enterprises
THRIVE Central Luzon: Technological Hive of Regional Innovation through a Vibrant Ecosystem
LINC Calabarzon: Linking Innovation Networks for Competitiveness in Calabarzon
BRIDGE Bicol: Building Resilience and Innovation to Drive Growth of Enterprises in Bicol
Startup Island: Cebu
Zampen Innohive: Region 9 Zamboanga
iSTRIKE Davao: Davao Regional Inclusive Innovation Center
ILIGANICE: Innovation through Leveraging Industry, Government, Academe Networks and Inclusive Community Engagements in Region 10-Iligan
OROBEST: Optimizing Regional Opportunities for Business Excellence through STI in Cagayan de Oro



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"For the Philippines' next era, we envision a prosperous economy driven by competition and *productivity"*

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Philippines Poised for Growth

