



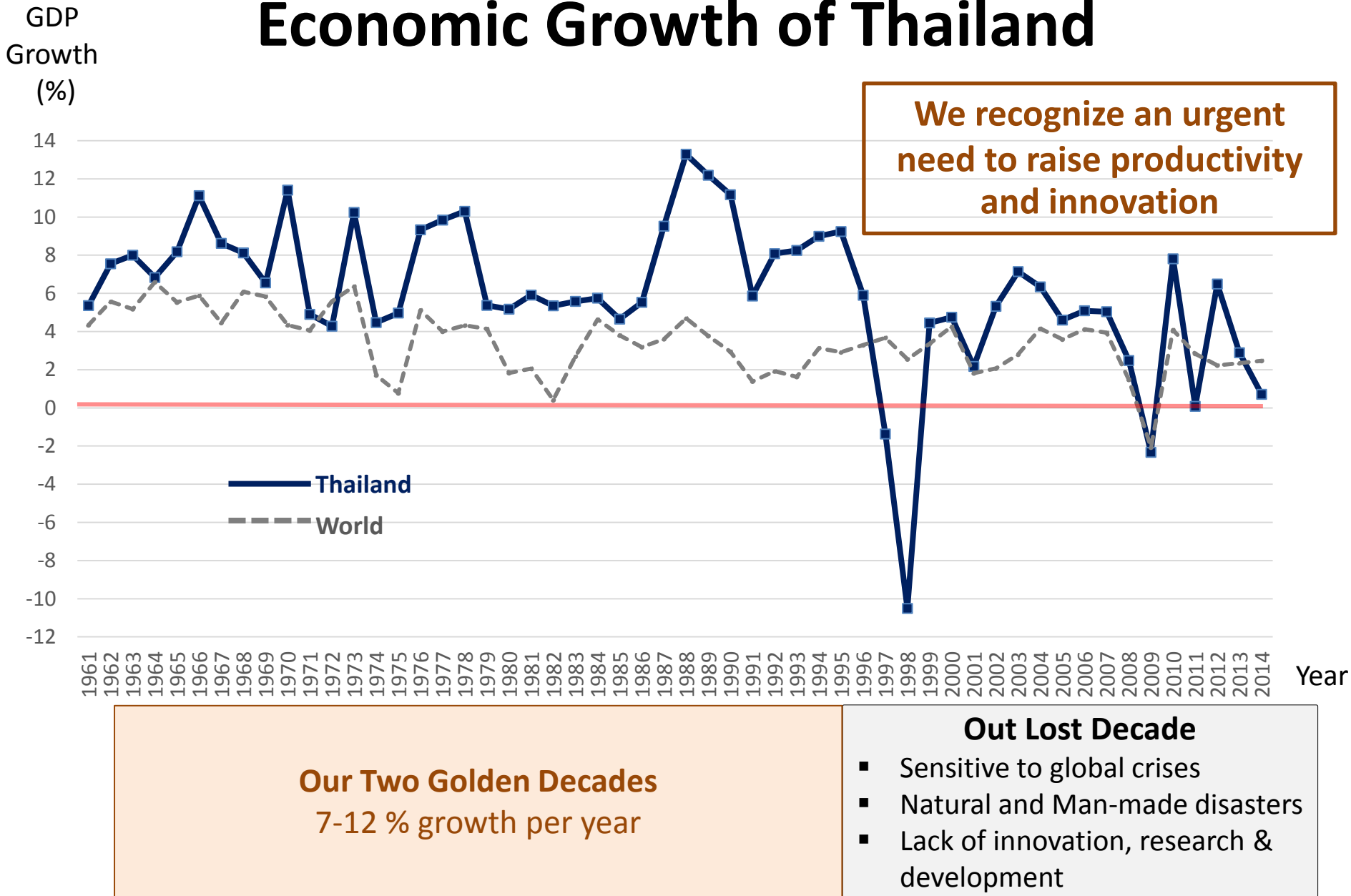
Digital Park for SMEs

อุทยานดิจิทัลเพื่อการออกแบบ
วิศวกรรม และการผลิต

Thaweesak Koanantakool, Ph.D.
President of NSTDA

Digital Thailand 2016
May 28, 2016 at QSNCC

Economic Growth of Thailand



Automotive Industry in Thailand



Pushing for the growth is not simple.

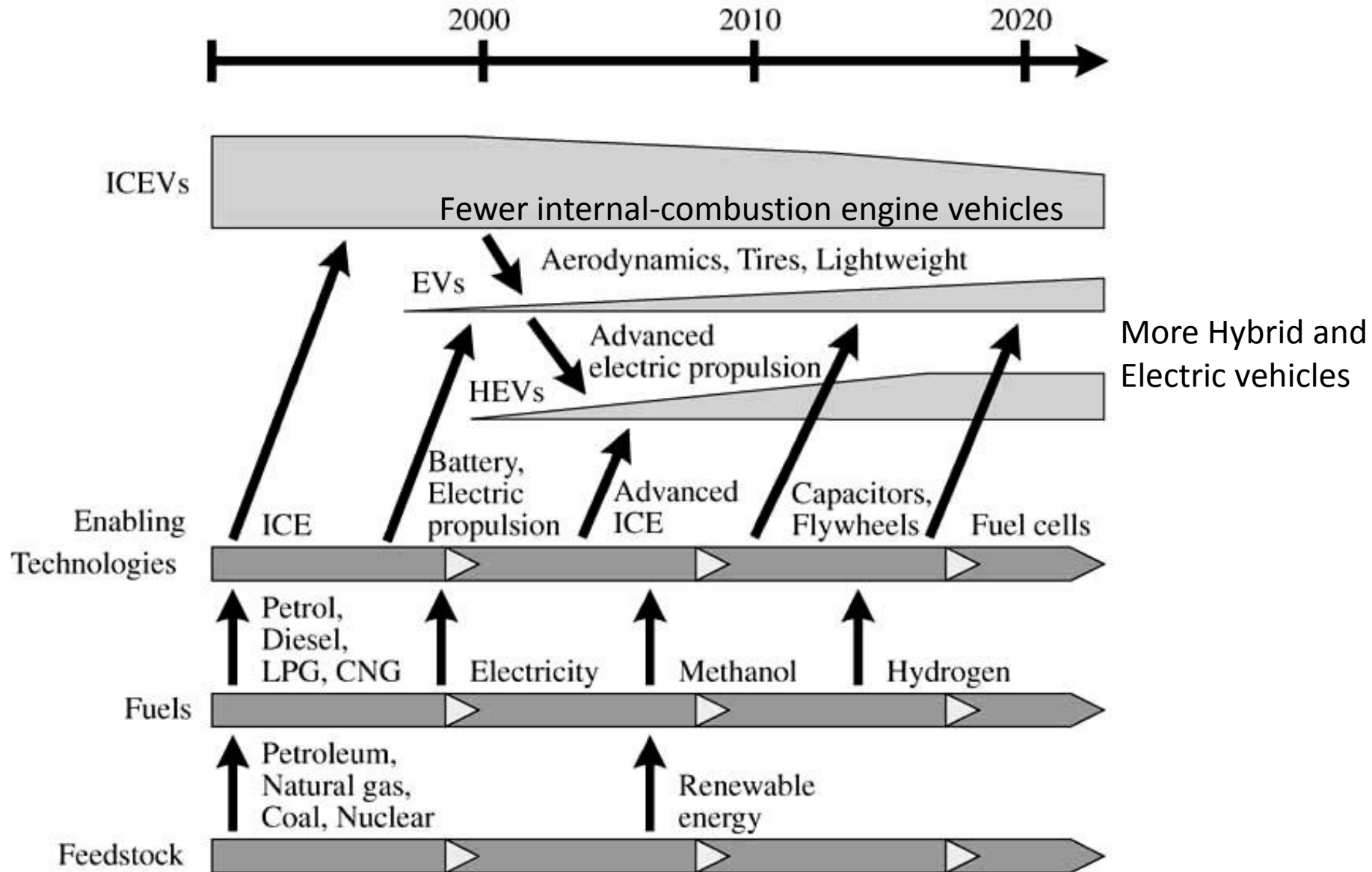
thai
autobook 2015

Source: https://en.wikipedia.org/wiki/Automotive_industry_in_Thailand#/media/

File:Thailand_Automotive_Sales_2008-2020.jpg

By Ulikaiser - Own work, CC BY-SA 4.0, <https://commons.wikimedia.org/w/index.php?curid=44492240>

Global Trends in Automotive Industry

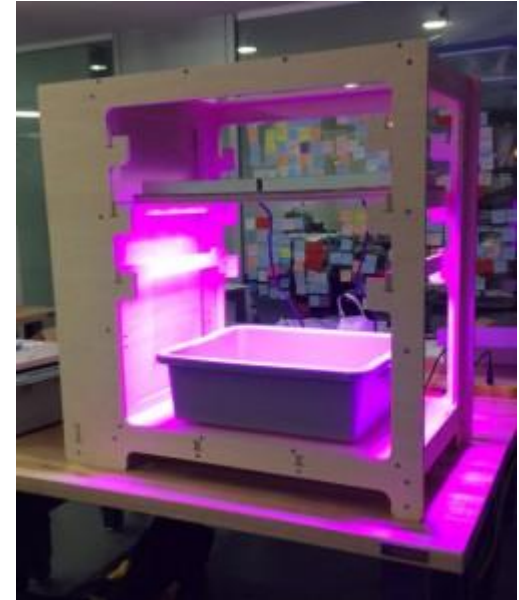


Global Trends in AgroTechnology



Grow organic vegetables using aeroponic with computer controlled climate.

Source:
<http://gizmodo.com/the-high-tech-farms-where-our-future-food-will-grow-in-1687747888>



Food computer developed at MIT Media lab.

<http://openag.media.mit.edu/the-move-towards-manufacturing/>

Future Sustainable Urban Living

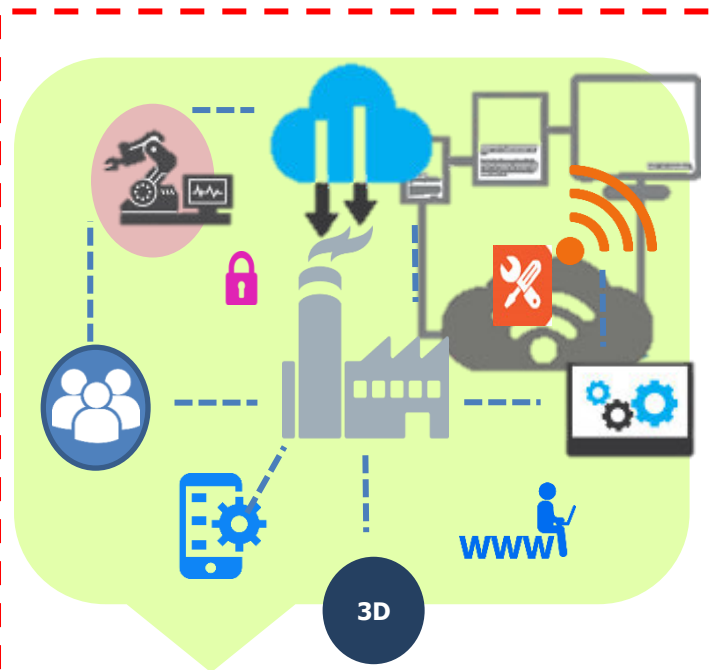
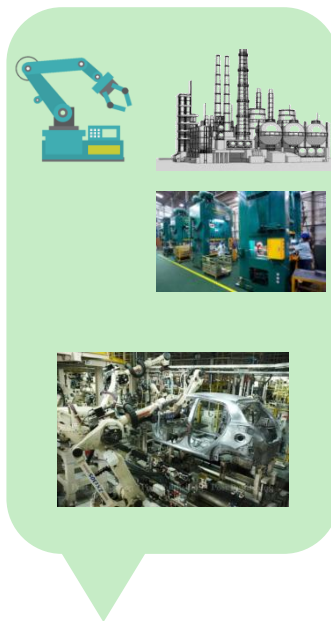
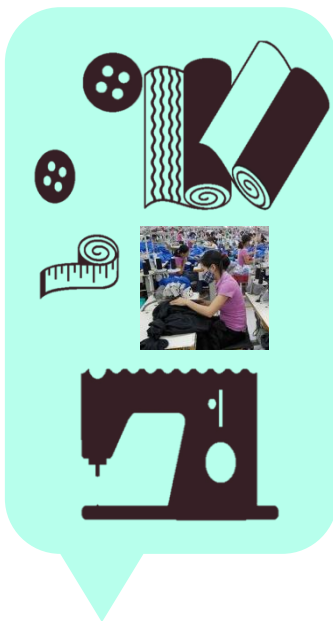
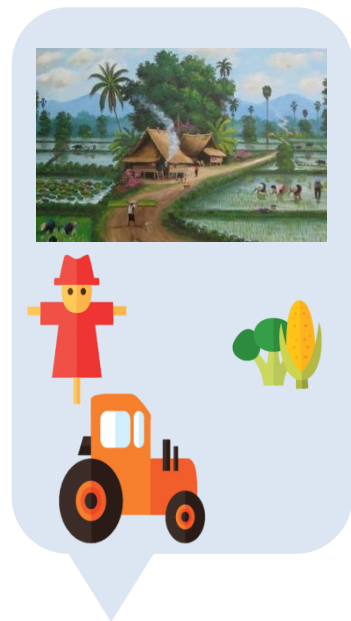
**Vertical organic farming with
small amount of water.**

**Safe and smart city with
clean environment.**



Thailand 4.0

(Smart Industry + Smart City + Smart People)



Thailand
1.0

Thailand
2.0

Thailand
3.0

Thailand 4.0

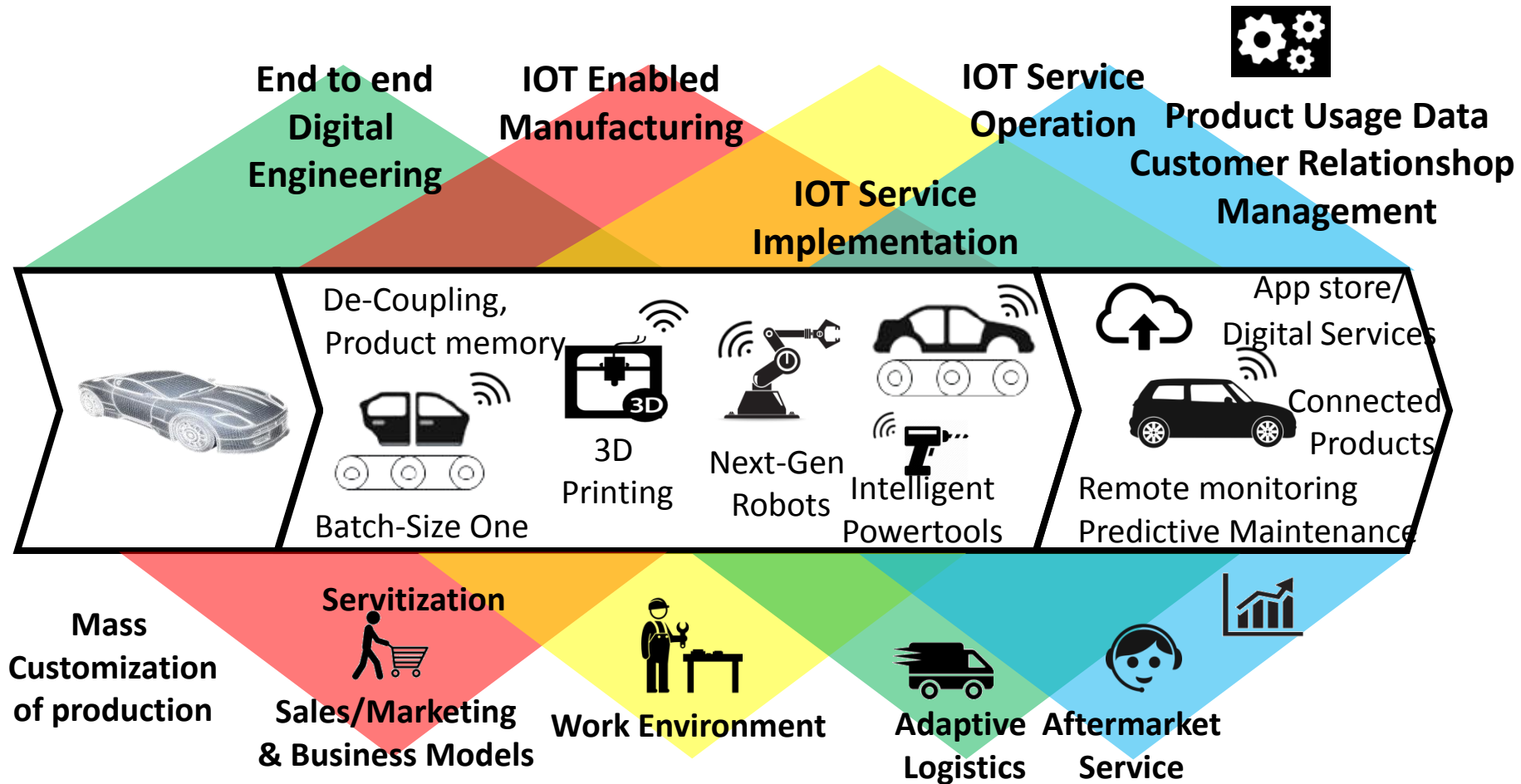
Agriculture

Light
Industry
Low wages

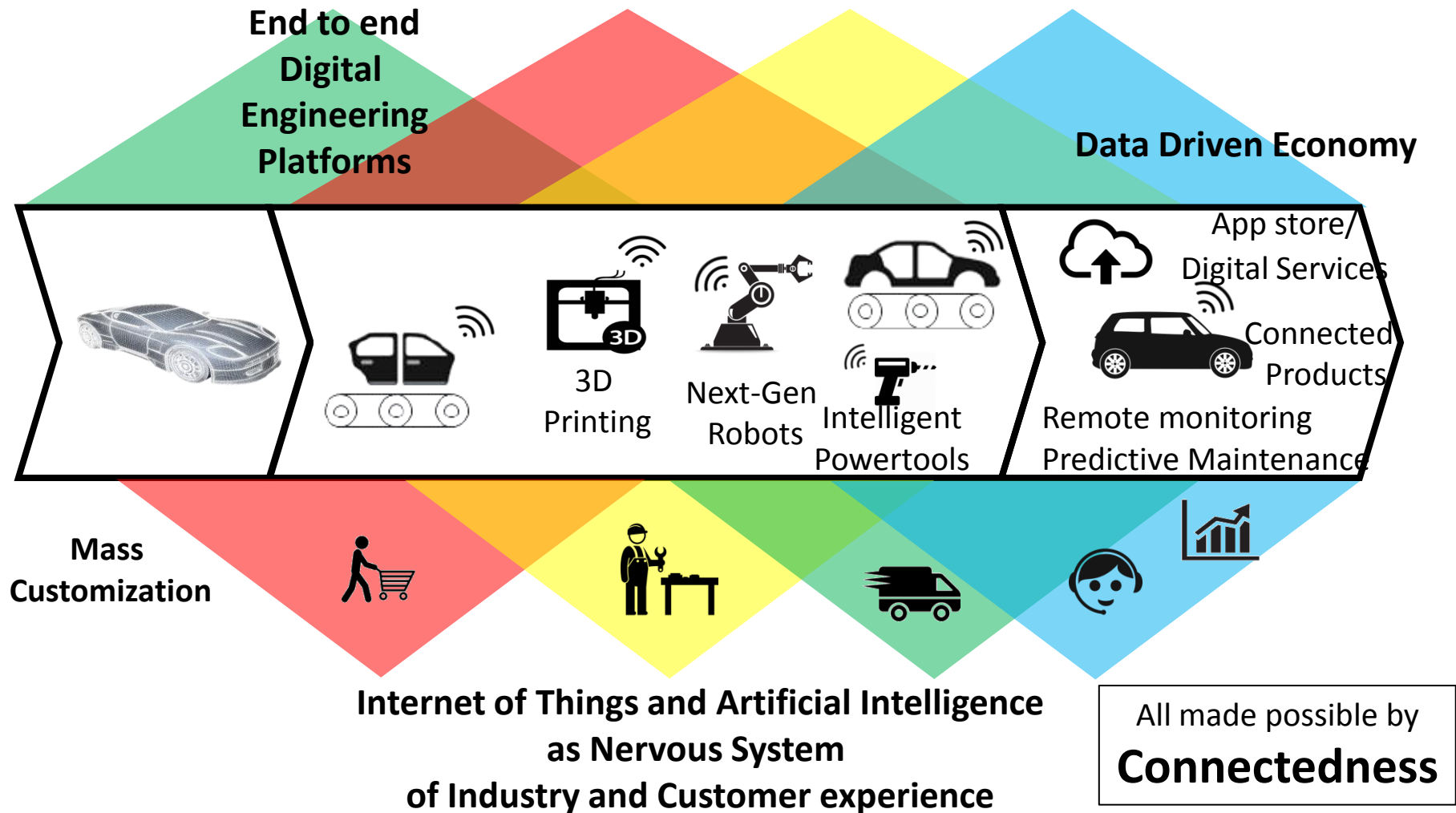
Heavy
Industry
Advanced
Machine

Creativity + Innovation
Smart Thailand

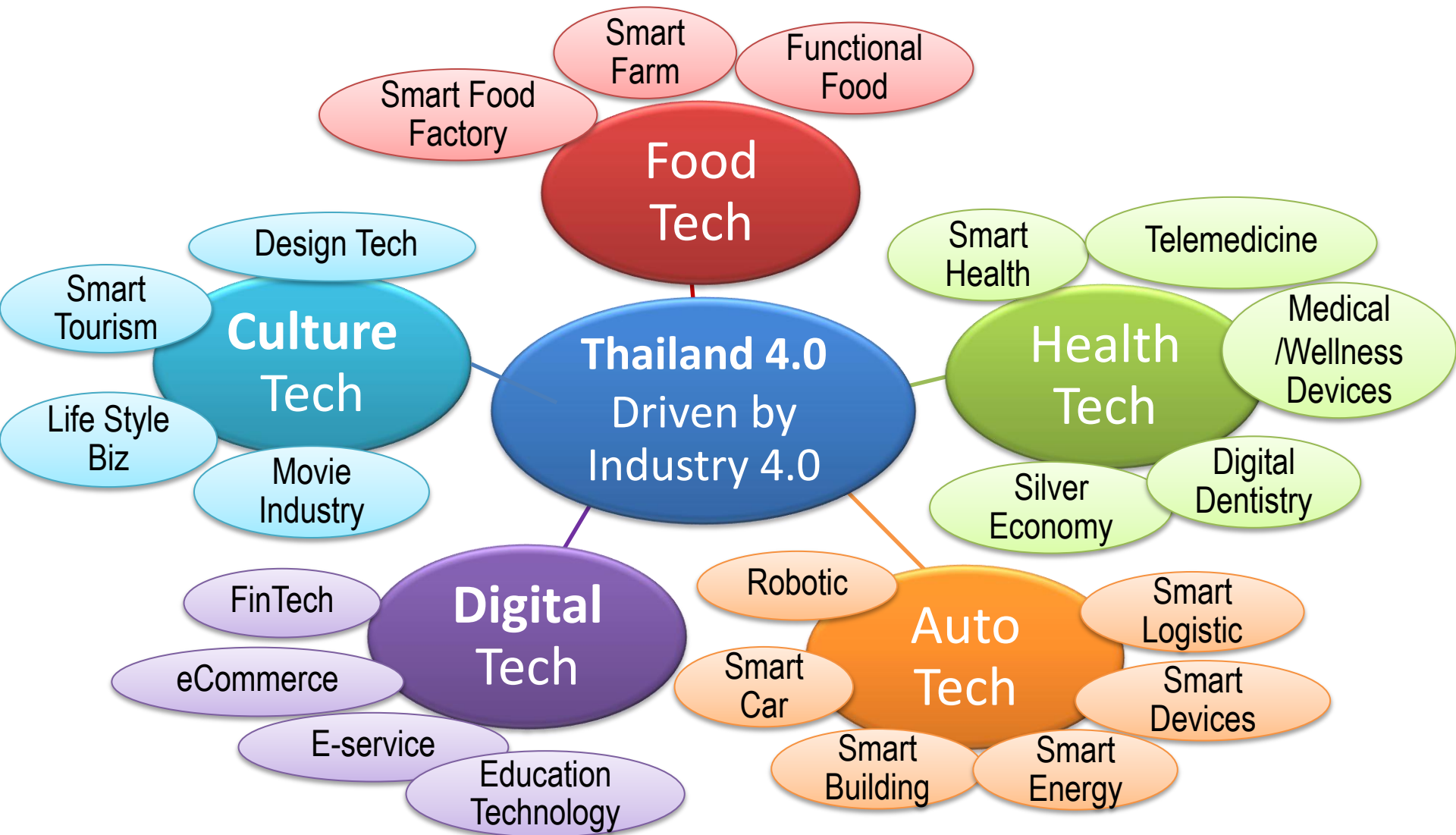
Industry 4.0



Industry 4.0



Thailand 4.0 : New Growth Industry



Thailand 4.0 : Transformation

New Industry

- Food, Agriculture and Bio Technology

- Health, Wellness and Biomedical Technology

- Smart Devices, Robotics and Mechatronics

- Digital, IOT and Embedded Technology

- Creative, Culture and High-Value Services

StartUps

- AgriTech
- FoodTech

- HealthTech

- RobotTech

- FinTech
- EdTech
- eMarketplace
- eCommerce
- Service enhancement

- DesignTech
- Lifestyle Business
- TravelTech

Fall within scope of

Digital Manufacturing Platform

and

Smart City Platform

Digital Park For SMEs

Guiding Principles

- Supporting transformation of Thai SMEs for Industry 4.0
- Unified government supports
- Global players engagement
- Financial institutions participation
- Full Integration from ideas to production and services

Unified Government Supports

- NSTDA, Ministry of Science and Technology
- CAT, Ministry of ICT
- BSID, Ministry of Industry
- The Board of Investment (BOI)

Financial Institutions Participation

- Investors and VCs
- Commercial Banks
- Accelerators

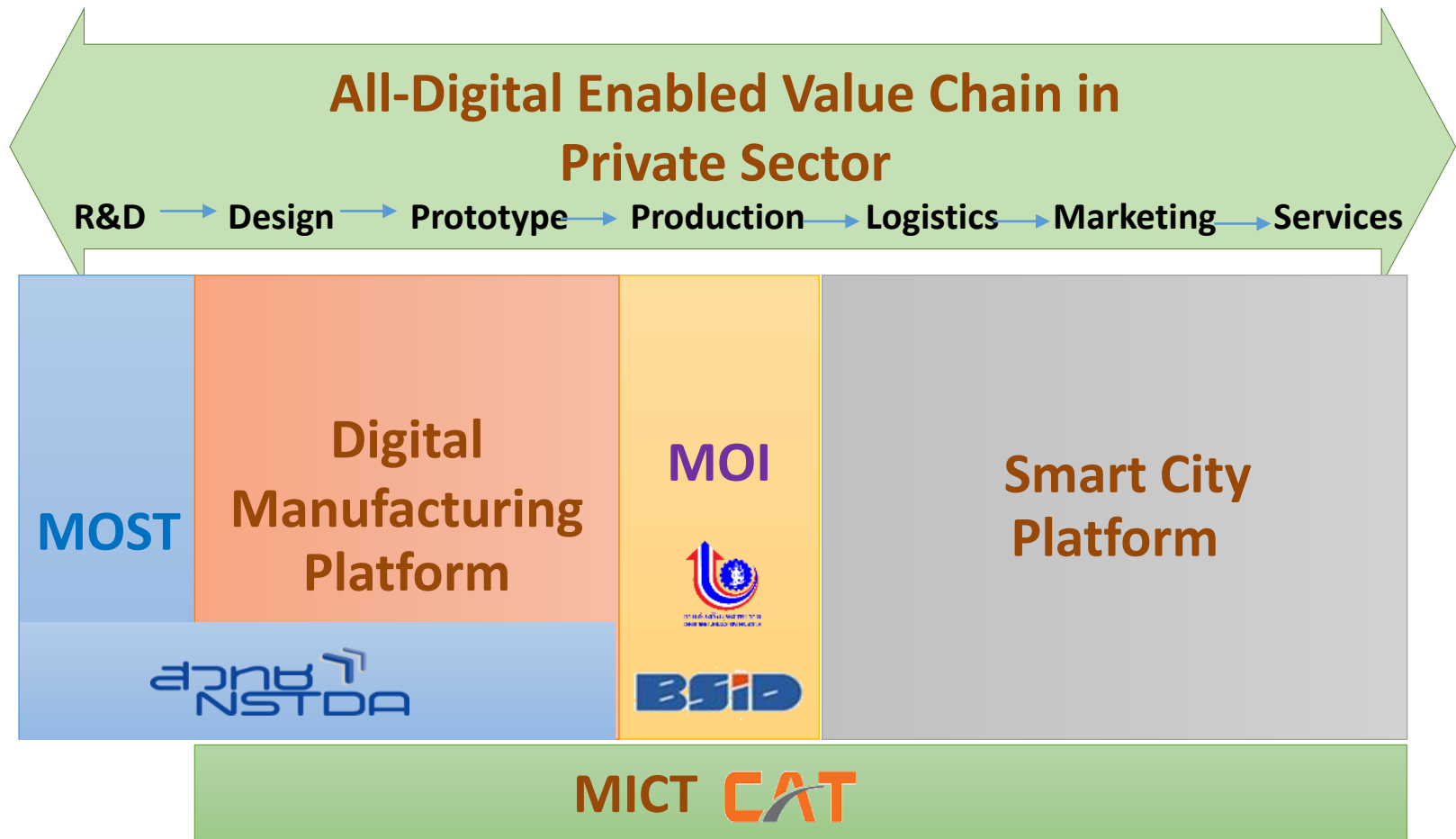
Global Players Engagement

- Incentives for investment
- Vast regional market and supply chain
- Areas: Design, Simulation, Engineering, Internet of Things, Big Data Analytics, Cyber Security and Artificial Intelligence

Missions of Digital Park

- A portal for all supports on *Digital Manufacturing Platform* and *Smart City Platform*
- Training and Retraining services in new technology for design and engineering in manufacturing
- Hub of high-level co-development space for startups and designers
- Network of Tech Incubator and accelerators
- One-stop services for getting government incentives

Full supports from ideas to production & services



Launched Initiatives

Collaboration between Ministry of ICT, Ministry of Industry and Ministry of Science and Technology



MOU signing among three ministries to collaborate the projects in a unified government support for Thailand Industry 4.0, May 26, 2016.

Launched Initiatives

Global Players Engagement



NSTDA-Autodesk MOU signing to establish a Digital Manufacturing Platform for Thailand on May 25, 2016.

Thailand 4.0

Platforms for Industrial Players



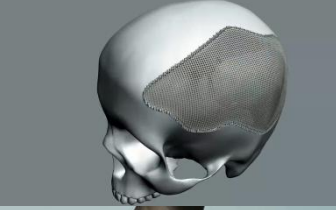
Digital Park for SMEs



Digital
Manufacturing
Platform



Smart City
Platform



Services from Bureau of Supporting Industries Development



Engineering
and
Production
Expert
Services

Product
Design and
Development
Services

Industrial
Information
Services

Business
Consultancy

Business
Matching
Services

BSC

BUSINESS SERVICE CENTER
ศูนย์บริการธุรกิจอุตสาหกรรม

BSC at Kluaynamthai and
branches all over Thailand

Services from CAT Telecom Company



CAT as City Digital Infrastructure Company

CAT Services

- Fiber FTTX
- Mobile/MVNO
- IDC & Cloud
- Platform Software

Partners

- Verticle Products, Applications, and Services

CAT Telecom Building at Bang Rak is designated as the location for Digital Park for SME.



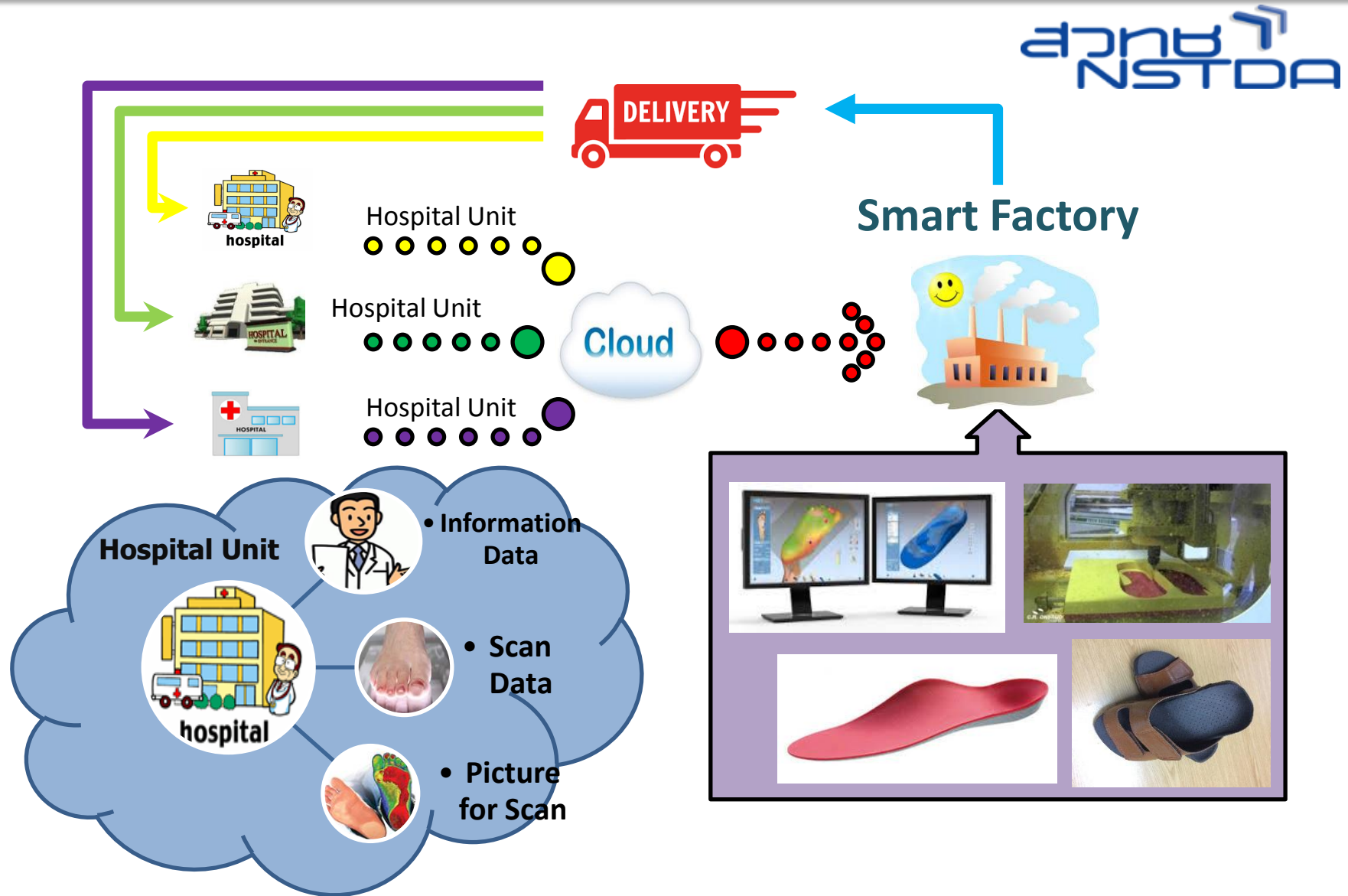
Digitally Enhanced Business example from NSTDA:

Digital Dentistry



Digitally Enhanced Business example from NSTDA:

Digital Footwear



25-28 July 2016, Bangkok, Thailand

i-CREATe 2016

Student Innovation Challenge (International) i-CREATe Startup Program (Wellness Startup)

10th International Convention on Rehabilitation Engineering & Assistive Technology





Thank You!

Thaweesak Koanantakool, Ph.D.

President of NSTDA

htk@nstda.or.th

Social: @htk999

Digital Thailand 2016

May 28, 2016 at QSNCC

(Edited version)