



MEDICAL AND
COMPREHENSIVE
HEALTHCARE



Industry Overview

Global Market

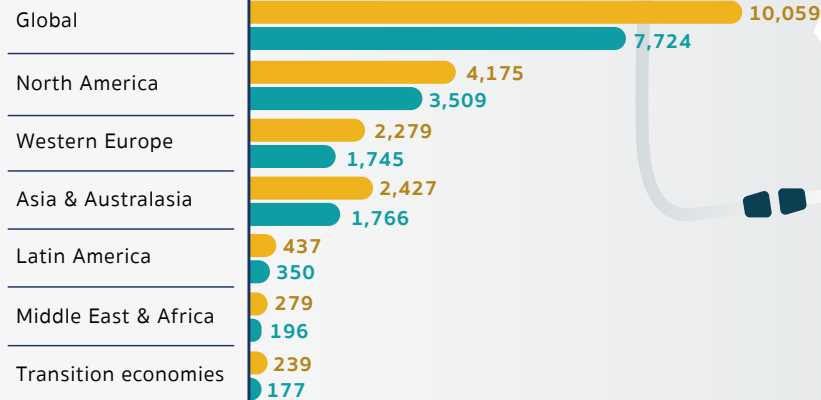
Industry
in Thailand

Investment
Incentives
in EEC

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Global health care expenditures continue to escalate. Health care spending is projected to reach \$10.059 trillion by 2022, with an annual rate increase of 5.4% between 2017-2022.

Health care spending (USD billion), and CAGR 2017-2022

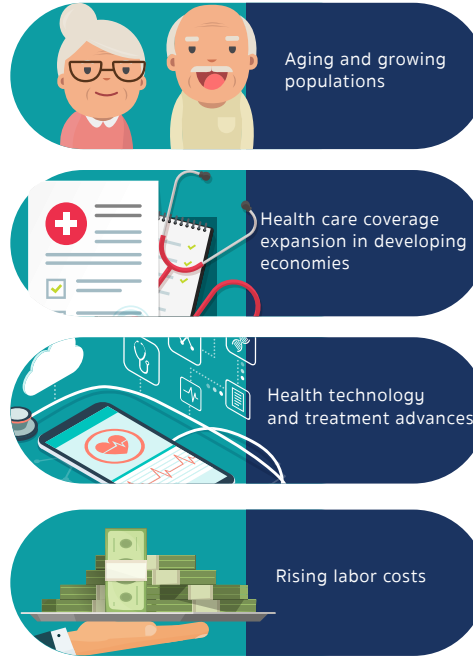


● 2022 ● 2017

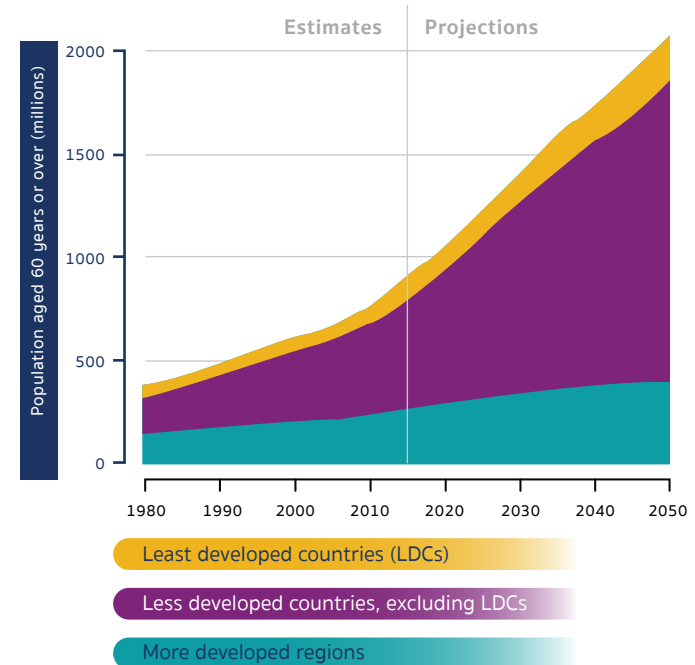
Source: Deloitte 2019 Global Health Care Outlook

Industry Drivers

Factors that will drive health care spending:



Number of persons aged 60 years or over by development group, from 1980 to 2050



Data source: United Nations (2017).
World Population Prospects: the 2017 Revision.

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Digital Innovation in the healthcare industry

Global Market

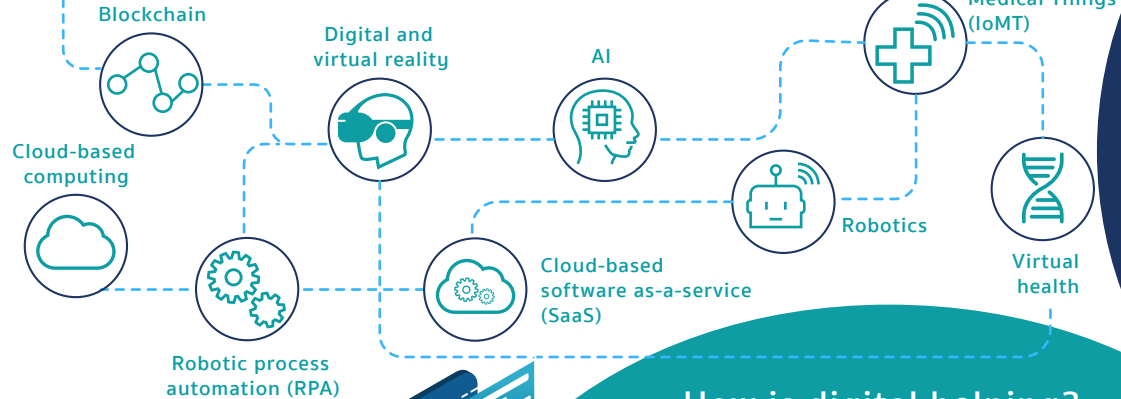
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Digital innovations that are transforming health care delivery, making them more efficient and accessible.

Digital health care innovations are emerging at a rapid scale, with wide-ranging impacts on clinical activities and back-office operations (i.e. supply chain, finance, HR).



Internet of
Medical Things
(IoMT)



How is digital helping?

diagnosis & treatment

personalization

quality

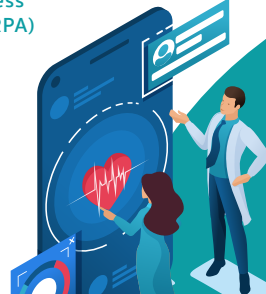
self-service

speed & accuracy

patient experience

accelerating the development of
new drugs and devices

training



Thailand as an ideal medical hub

With over 1,000 public and 300 private hospitals, many of which are state-of-the-art medical facilities, Thailand is able to offer top-quality and wide-ranging services and treatments at reasonable prices.

Millions of people travel to Thailand for medical treatment annually, and this number has been increasing due to:

- Reasonable costs of medical treatment
- High-quality medical and healthcare services
- Highly developed tourism infrastructure
- Global reputation for excellent services

Such high-level of demand has provided the stimulus for technological advances, innovations, and clinical research studies.

According to the 2019 edition of the CEOWORLD magazine Health Care Index, Thailand is ranked sixth among the few Asian countries which managed to reach the top 10 in 2019.



Rank	Country	Health Care Index (Overall)	Infrastructure	Professionals	Cost	Medicine Availability	Government Readiness
1	Taiwan	78.72	87.16	14.23	83.59	82.3	87.89
2	South Korea	77.7	79.05	13.06	78.39	78.99	65.09
3	Japan	74.11	90.75	30.01	82.59	92.06	96.3
4	Austria	71.32	86.18	20.25	78.99	88.23	91.8
5	Denmark	70.73	78.77	21.6	74.88	74.18	93.2
6	Thailand	67.99	92.58	17.37	96.22	67.51	89.91
7	Spain	65.38	77.86	13.24	71.82	55.1	81.38
8	France	64.66	86.28	34.25	75.81	83.82	96.8
9	Belgium	64.63	72.48	24.51	68.68	64.78	94.9
10	Australia	61.73	88.63	14.66	75.61	90.25	88.41

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Trade of medical devices

With over 530 local medical device manufacturers,

Thailand's medical device sector
is the

8th

largest in the Asia-Pacific region

Between 2011-2018, the country's export value of medical devices increased from 554 Million USD to 843 Million USD, reflecting the growing size of the domestic market and Thailand's importance as an export base.

Global Market

Industry
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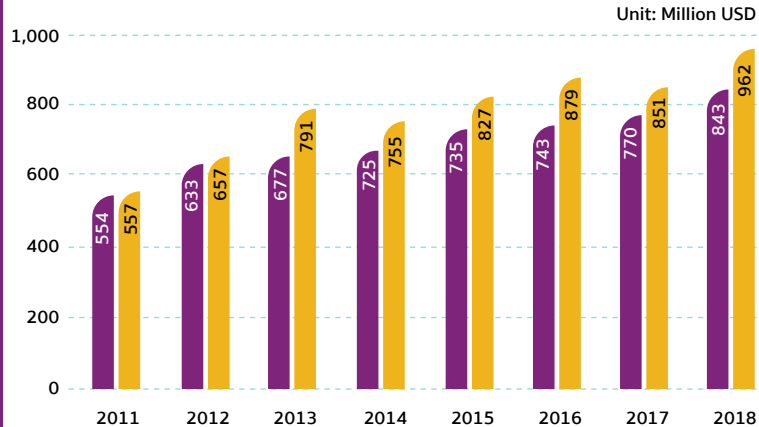
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Thailand's Medical Device Trade

Export

Import



Source: International Trade Center

Source: BOI

Trade of medical devices



Investment incentive package for investment projects in the Eastern Economic Corridor (2020-2021)

Key features	Investment Incentives	Targeted activities			
		Section 8	A1	A2	A3
1. Standard tax package	Tax holidays	10 Years (no cap)	8 Years (no cap)	8 Years	5 Years

Human resource development programs (additional tax incentives)

2. Investment projects which are engaged in human resource development programs	Tax holidays	2 Years (no cap)	-	-	-
	50% reduction of CIT	-	3 Years	3 Years	3 Years

Projects located in the four promoted zones for specific industries (EECi, EECd, EECA and EECmd) OR industrial estates and promoted industrial parks

3. Investments located in EECi, EECd, EECA and EECmd	Tax holidays	1 year (no cap)	-	-	-
	50% reduction of CIT	-	2 Years	2 Years	2 Years

OR

3. Investments located in industrial estates and promoted industrial parks.	Tax holidays	1 year (no cap)	-	-	1 Year
	50% reduction of CIT	-	-	-	-

Remarks:

- A1 : Knowledge-based activities focusing on R&D and design to enhance the country's competitiveness.
A2 : Infrastructure activities for the country's development, activities using advanced technology to create value-added, with no or very few existing investments in Thailand.
A3 : High technology activities which are important to the development of the country, with a few investments already existing in Thailand.
Section 8 : Technology and Innovation Development includes targeted core technology development such as development of biotechnology, nanotechnology, advanced materials technology and digital technology.

New investment promotion measure in EEC

- Starting January 2, 2020

According to the announcement of the Board of Investment No.2/2563, announced on January 15th, 2020,

- Applications must be submitted by the last working day of 2021.

- Projects located in the four promoted zones for specific industries (EECi, EECd, EECA and EECmd) are eligible for the incentives without application deadline.

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Example of Hospitals with JCI-Accreditation

BANGKOK



CHIANG MAI



NAKHON SAWAN



KHON KAEN



PHUKET



UDON THANI



Major Medical Device Manufacturers in Thailand



NIPRO	Nipro (Thailand)	Blood Tubing Set, PTA Balloon Catheter, Hypodermic Needles, and Syringe
HOYA	Hoya Optics (Thailand)	Glass Molded Lenses, Preforms, Glass Polished Lenses and Glass Lenses Pressed Blanks
KAWASUMI	Kawasumi Laboratories (Thailand)	Hemodialysis, Plasmapheresis, Blood Banking and Transfusion, and Infusion Therapy
Reckitt Benckiser	Reckitt Benckiser Healthcare Manufacturing (Thailand)	Antiseptic, Sore Throat Medicine, Ingestion Remedy, and Immune Support Supplement
MEDITOP	Meditop	Diagnostic Product, Cardiovascular Product, Ventilator, Renal Product Group, and Tester
GE Healthcare	GE Medical Systems (Thailand)	EP Recording, Maternal-Infant Products, Ultrasound, Radiography, Mammography, and Ventilator
EYEBIZ HEALTHY EYES BETTER LIVES	Eyebiz Laboratory (Thailand)	Ophthalmic Lenses
E	Emerald Nonwovens International	Single Use Medical Devices, Surgical Gown and Specialty Drapes
infus	Infus Medical (Thailand)	Bone Cement Mixing, Blood Transfusion Products, Apheresis Products, and Drainage Products

Example of Clinical Trial Centers in Thailand



Leading

Pharmaceutical Companies in Thailand



Institutions with Technological Development Support

There are many institutions and organizations who support technological development and facilitate entrepreneurs in the medical industry



Thailand's Science park
One-stop service center to assist companies engaged in scientific and technological research



National Science and Technology Development Agency
Strengthen R&D and support necessary S&T human resource development



BIOTEC
Provide basic infrastructure such as laboratories for healthcare services or modern biotechnology businesses



Ministry of Public Health
Control over the production, import, export, sale or handling of medical device.



Food and Drug Administration
Controls products in Thai market: foods, drugs, psychotropic substances, medical devices, etc.



TCELS
Promote and support innovations and knowledge related to life sciences products and services



National Innovation Agency
Support and develop innovation system, in both the way of improvement and initiation to promote competitive enhancement



THAIMED
Coordinate with the government and the private sector to develop the medical device industry