

"Transforming Thailand Towards Science & Technology Frontiers"

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Director & Chairman of the Management Advisory Committee

CEO Innovation Forum 2018
Mon., Mar. 26, 2018 at 10.30-11.30hr

@ Ballroom, Queen Sirikit National Convention Center



Bloomberg 2018 Innovation Index											
		YoY change	Economy	Total score		Manufacturing value-added		High-tech density		Researcher concentration	Patent activity
1	1	0	S. Korea	89.28	2	2	21	4	3	4	1
2	2	О	Sweden	84.70	4	11	5	7	18	5	8
3	6	+3	Singapore	83.05	15	5	12	21	1	7	12
4	3	-1	Germany	82.53	9	4	17	3	28	19	7
5	4	-1	Switzerland	82.34	7	7	8	9	11	17	17
6	7	+1	Japan	81.91	3	6	24	8	34	10	3
7	5	-2	Finland	81.46	8	16	10	13	19	6	4
8	8	0	Denmark	81.28	6	15	11	15	26	2	10
9	11	+2	France	80.75	12	35	14	2	10	21	9
10	10	О	Israel	80.64	1	27	9	5	41	1	19
11	9	-2	U.S.	80.42	10	23	6	1	42	20	2
12	12	О	Austria	79.12	5	8	15	26	12	12	5
13	16	+3	Ireland	77.87	22	1	1	18	20	14	33
14	13	-1	Belgium	77.12	11	22	13	10	37	13	21
15	14	-1	Norway	76.76	19	37	19	11	23	8	14
16	15	-1	Netherlands	75.09	17	26	20	6	47	15	18
17	17	0	U.K.	74.54	20	40	23	14	8	18	15
18	18	0	Australia	74.35	14	46	16	17	17	3	20

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Innovation Index 2018

2018 rank		YoY change	Economy	Total score in	R&D ntensity	Manufacturing value-added		High-tech density	Tertiary efficiency	Researcher concentration	Patent activity
19	21	+2	China	73.36	16	19	40	12	4	42	6
20	24	+4	Italy	68.88	25	20	22	20	32	36	23
21	22	+1	Poland	68.74	35	13	37	16	14	34	24
22	20	-2	Canada	67.98	21	32	26	23	45	16	22
23	19	-4	New Zealand	67.40	31	36	18	25	43	22	11
24	25	+1	Iceland	67.11	13	28	2	-	27	9	26
25	26	+1	Russia	66.61	32	33	44	22	5	28	16
26	23	-3	Malaysia	64.79	26	17	36	24	36	33	34
27	27	0	Hungary	64.37	24	10	42	18	48	32	35
28	28	0	Czech Rep.	63.47	18	3	25	-	33	24	28
29	29	0	Spain	63.06	29	25	27	36	6	31	31
30	31	+1	Portugal	61.38	28	31	32	42	7	23	37
31	30	-1	Greece	61.37	36	45	34	28	15	26	39
32	34	+2	Luxembourg	60.65	27	38	3	-	50	11	13
33	37	+4	Turkey	60.26	34	21	30	34	13	43	30
34	32	-2	Lithuania	59.04	33	14	33	-	9	29	43
35	38	+3	Romania	58.94	48	12	31	27	24	47	38
36	33	-3	Estonia	58.76	23	24	29	-	22	27	42
37	35	-2	Hong Kong	57.05	41	50	4	29	31	25	29
38	36	-2	Slovakia	56.88	30	8	35	-	39	30	45
39	40	+1	Malta	54.27	40	43	7	37	29	38	47
40	39	-1	Latvia	53.65	46	39	28	40	30	39	32
41	NR	-	Bulgaria	51.54	37	34	41	39	38	37	48

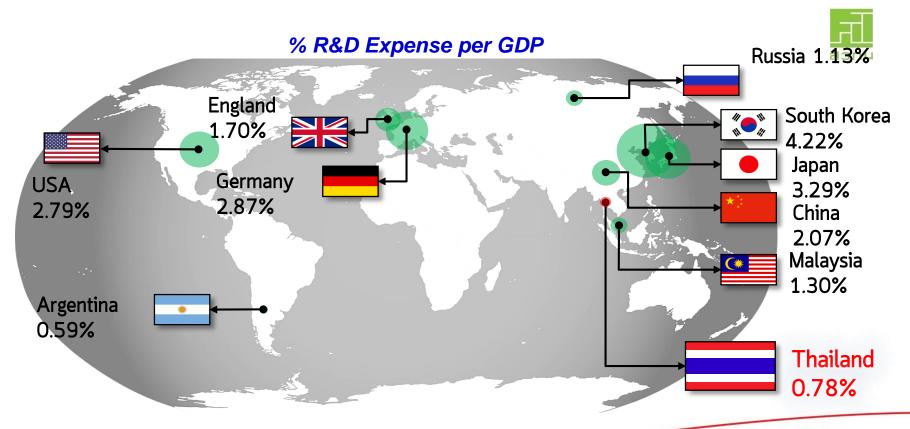
Source: https://www.bloomberg.com/news/articles/2018-01-22/south-korea-tops-global-inpovation-ranking-again-as-u-s-fall



Innovation Index 2018

	2017 rank	YoY change	Economy	Total score i		Manufacturing value-added		High-tech density	Tertiary efficiency	Researcher concentration	Patent activity
42	41	-1	Croatia	51.24	39	30	39	44	35	41	41
43	45	+2	Tunisia	49.83	44	41	46	41	16	40	44
44	43	-1	Serbia	48.93	38	29	47	43	44	35	46
45	44	-1	Thailand	47.83	45	18	45	31	25	48	-
46	42	-4	Ukraine	47.28	47	48	50	32	21	46	27
47	47	0	Cyprus	47.01	49	49	38	30	40	45	40
48	-	-	S. Africa	46.98	42	47	43	35	49	50	25
49	-	-	Iran	46.09	50	42	49	38	2	49	36
50	50	0	Morocco	44.84	43	44	48	33	46	44	49

Research and Development Expenditure (% of GDP)



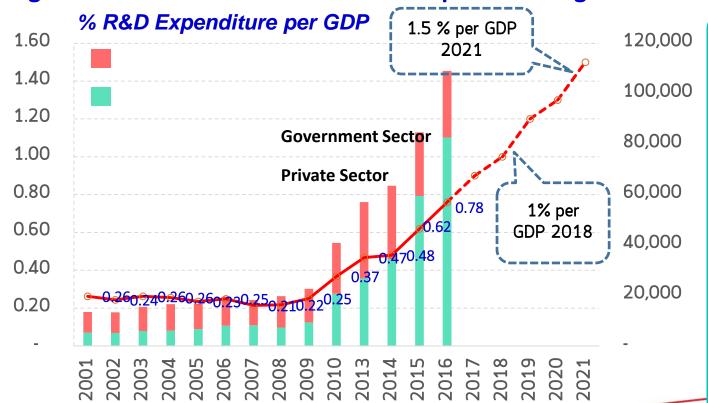
Source: IMD 2017 and STI, 2018. Note: International data as of 2015 and Thailand data as of 2016.



Thailand needs Much More Investment in R&D

Targeted future R&D investments in the private and government sectors





- BOI Privileges for R&D and Innovation Investment
- Competitiveness Fund
- Startup Ecosystem
- Economic Zone for Innovation
 - Food Innopolis
 - Science Park
 - EECi
- 300% Tax Exempt of R&D and Innovation Cost
- **Spearhead** Innovate Thailand
- Ease of Doing Innovation Business
- Talent Mobility
- Smart Visa



Note: Figures since 2560 are forecasted. Source: IMD 2017 and STI, 2018.

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20 year Research and Innovation Strategy

Spearhead Research & Innovation Program (2017-2036)

Research and Innovation Budget Plan
20 year Research and Innovation Strategy

Strategy 1

Research and Innovation for Economic Stability Strategy 2

Research and Innovation for Social and Environmental Development Strategy 3

Research and Innovation for the Creation of Basic Knowledge

Strategy 4

Development of Research and Innovation Eco-system

Integration of Strategic Program for the Promotion of Research and Innovation

Spearhead Research and Innovation



Innovation Ecosystems for the Future

create innovation with speed, quality and affordability

Eastern Economic Corridor Innovation (EECI)

New growth hubs to drive innovation



Open Innovation

Gateway to connect & innovate

R&D Consortium

Select right target for driving RD to commercialization

Technology Startup

Support and encourage startup growth ecosystem



Thank You



