



Maybank

Kim Eng

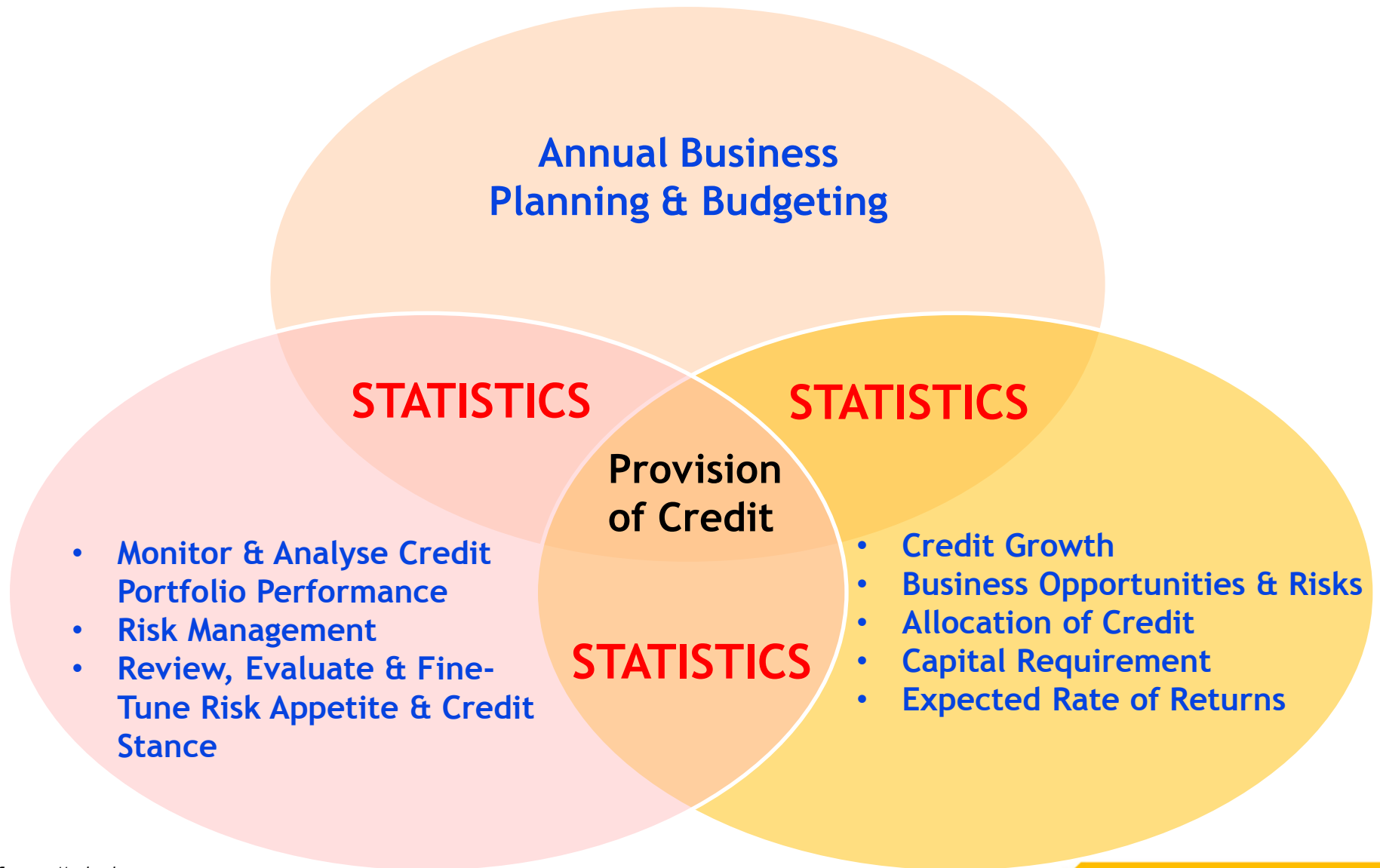
Statistics for Decisions & Innovation

A Bank's Perspectives

Chief Economist

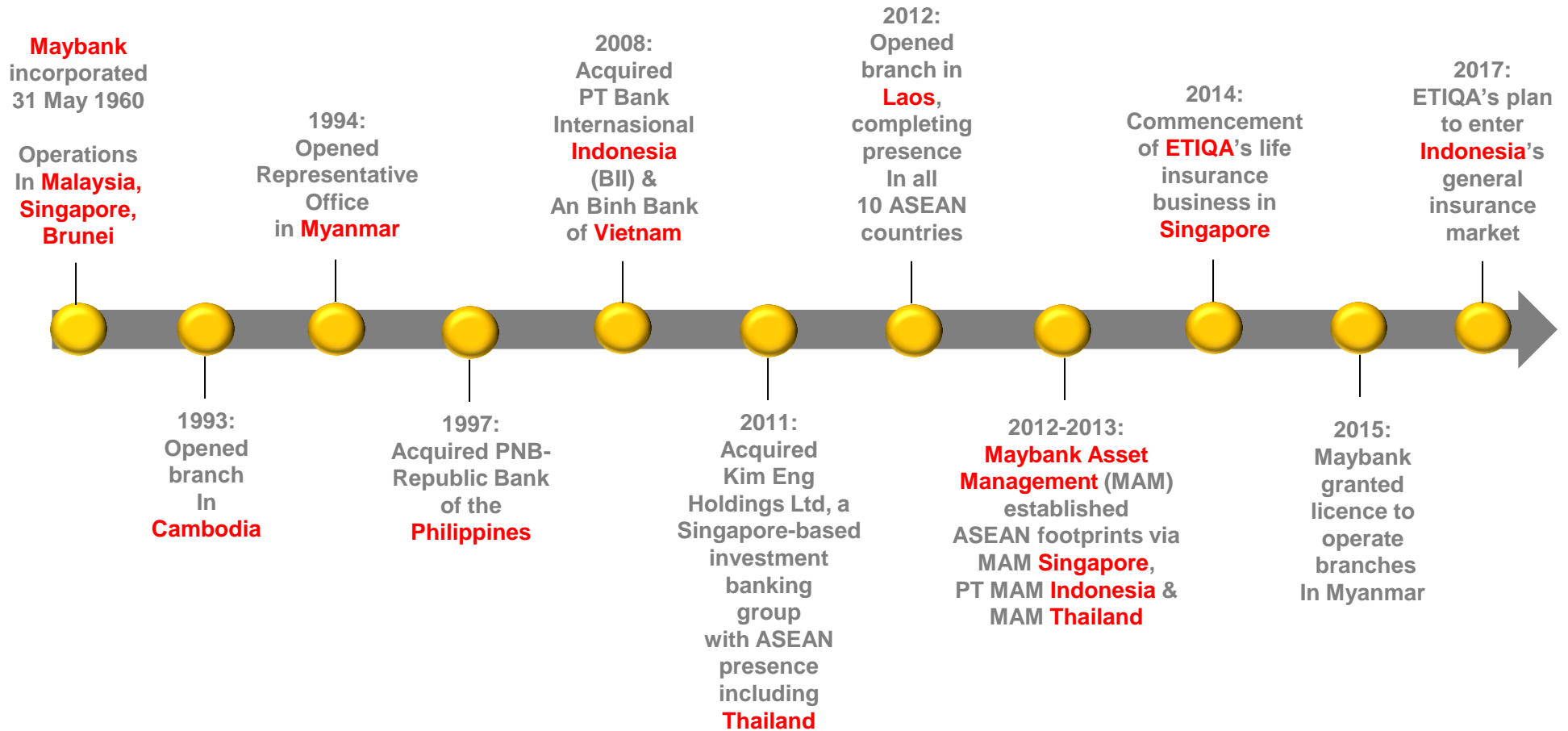
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The role & use of statistics in one of the basic function of a bank i.e. providing credit



Source: Maybank

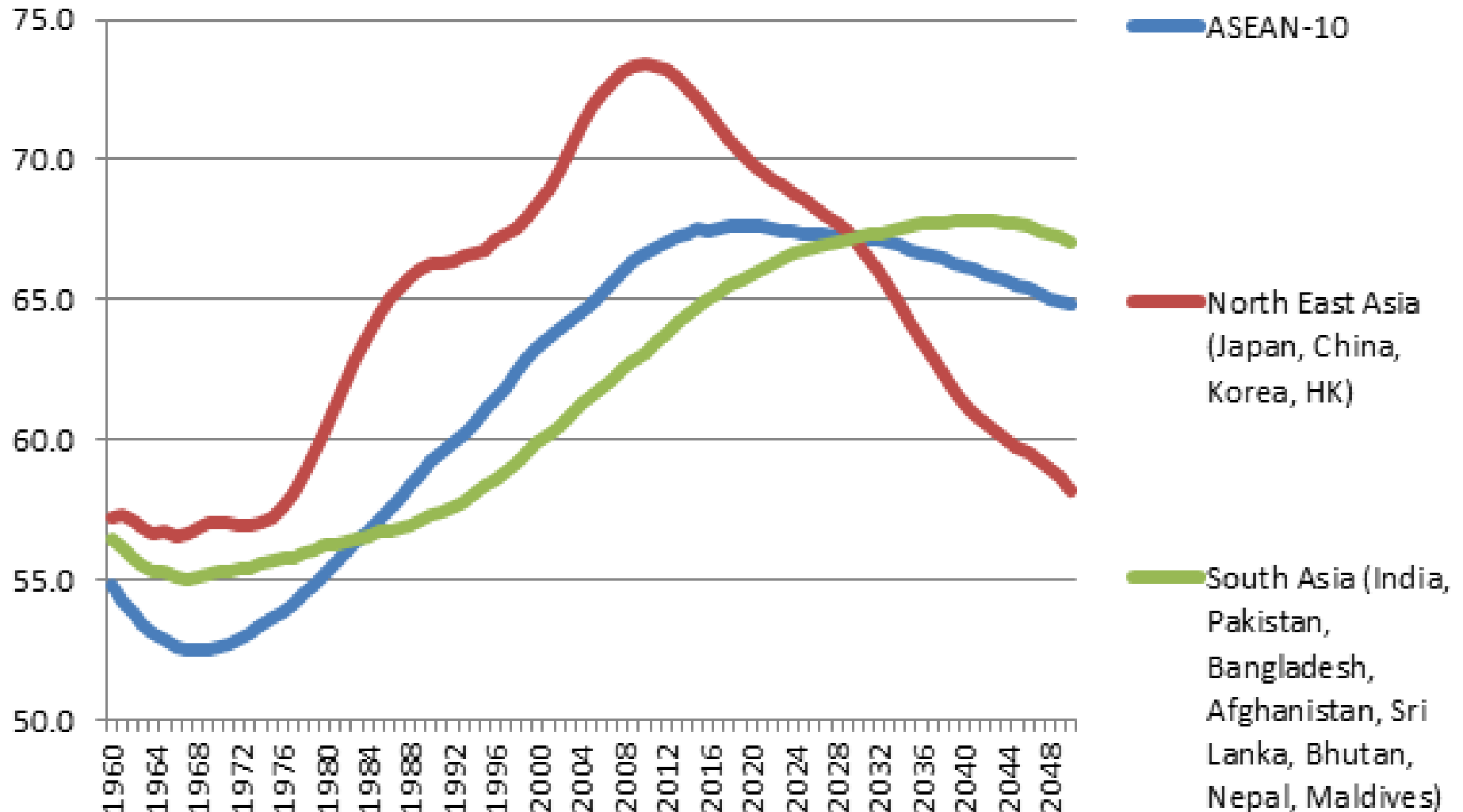
Maybank: ASEAN financial institution & services provider



Source: Maybank

Social and economic statistics highlight the potential of ASEAN e.g. favourable demographic trends

ASEAN's "Demographic Dividend" - Percentage of Population in the Working Age Group (15-64 Years Old)



Social and economic statistics highlight the potential of ASEAN e.g. infrastructure spending

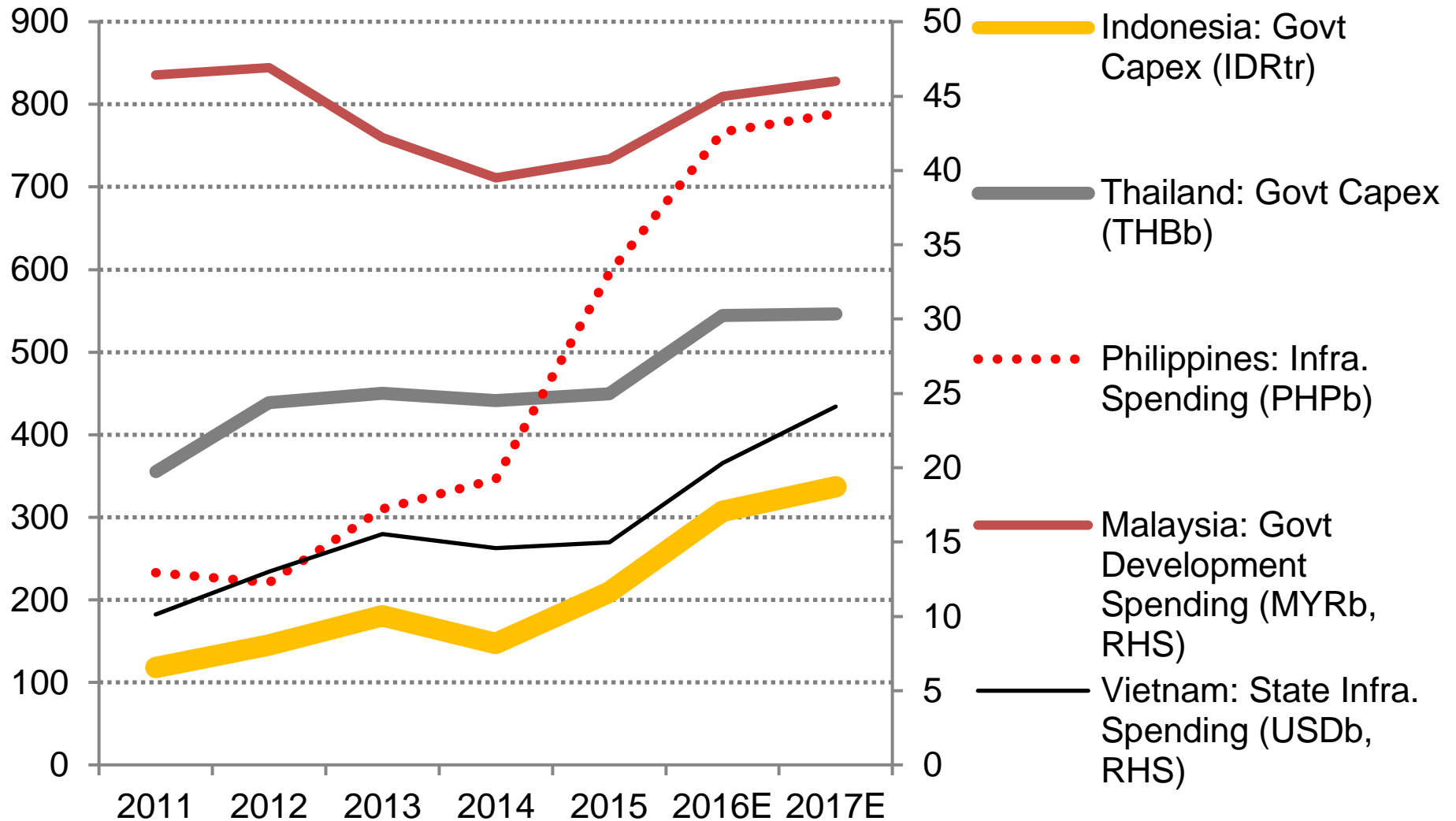
Estimated Infrastructure Spending, 2016-2020 (USD**b**)

	ASEAN-6	Indonesia	Thailand	Philippines	Malaysia	Vietnam	Singapore	ASEAN-6 p.a.
TOTAL	620	223	130	82	98	46	41	124
Transport	304	70	47	65	70	15	37	61
Air	63	2	3	52	1	4	1	13
Road	80	47	5	5	12	5	6	16
Rails	145	17	37	8	52	2	28	29
Sea (Ports)	17	4	2	NA	4	4	3	3
Power	187	85	50	8	15	28	1	37
Water	78	42	26	6	2	3	NA	16
ICT	27	10	5	1	8	NA	3	5
Housing	24	16	2	3	3	NA	NA	5

Source: MKE Research

Social and economic statistics highlight the potential of ASEAN e.g. infrastructure spending

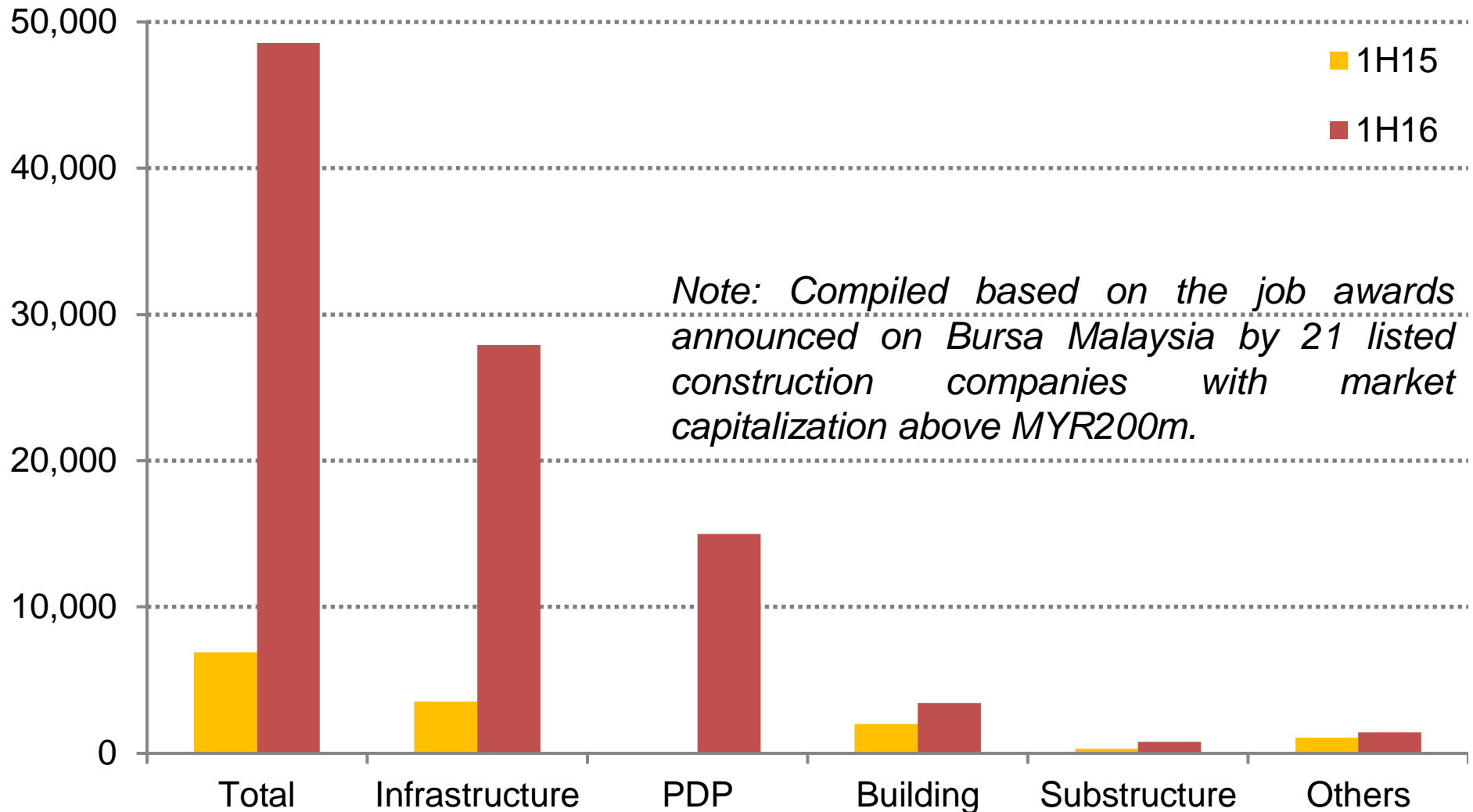
ASEAN Governments' Infrastructure-Related Spending



Source: MKE Economics Research, Country's Official Budgets

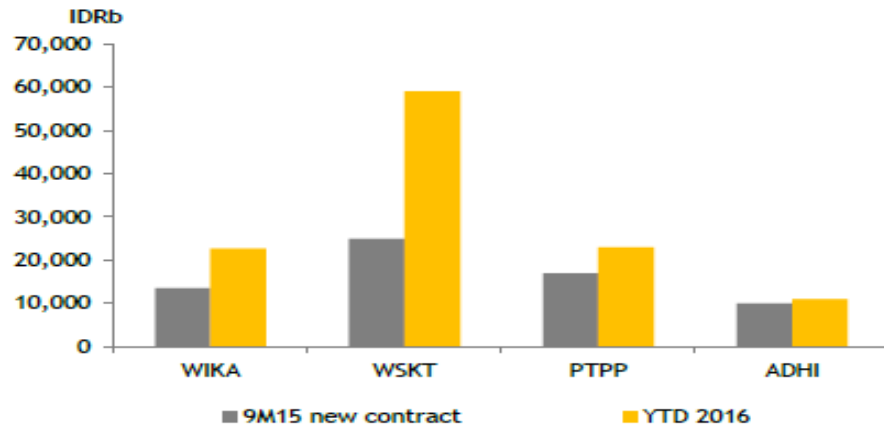
Social and economic statistics highlight the potential of ASEAN e.g. infrastructure spending

Construction Jobs Awarded to PLCs (MYRm)

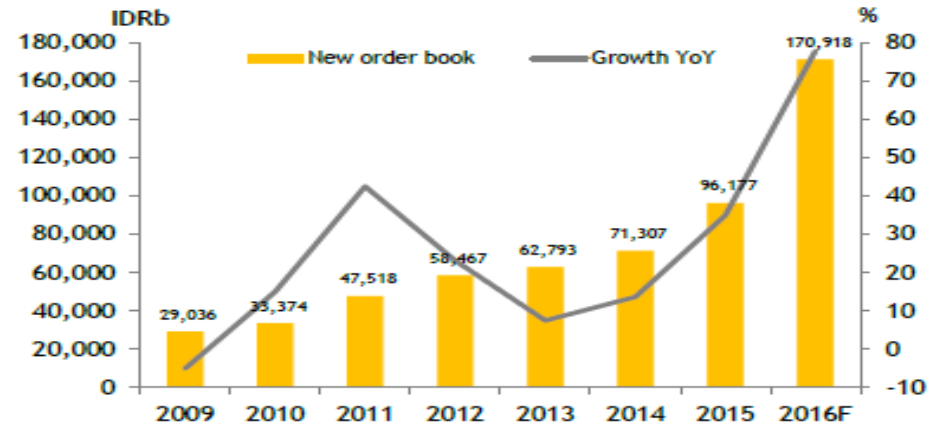


Social and economic statistics highlight the potential of ASEAN e.g. infrastructure spending

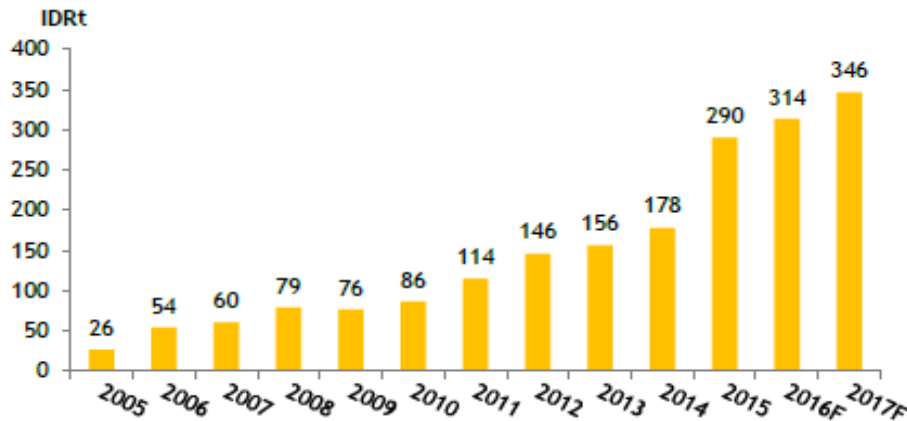
INDONESIA: Selected PLCs' New Contracts 2016 vs 2015



INDONESIA: Selected PLCs' New Order Books



INDONESIA: Government Infrastructure Budget

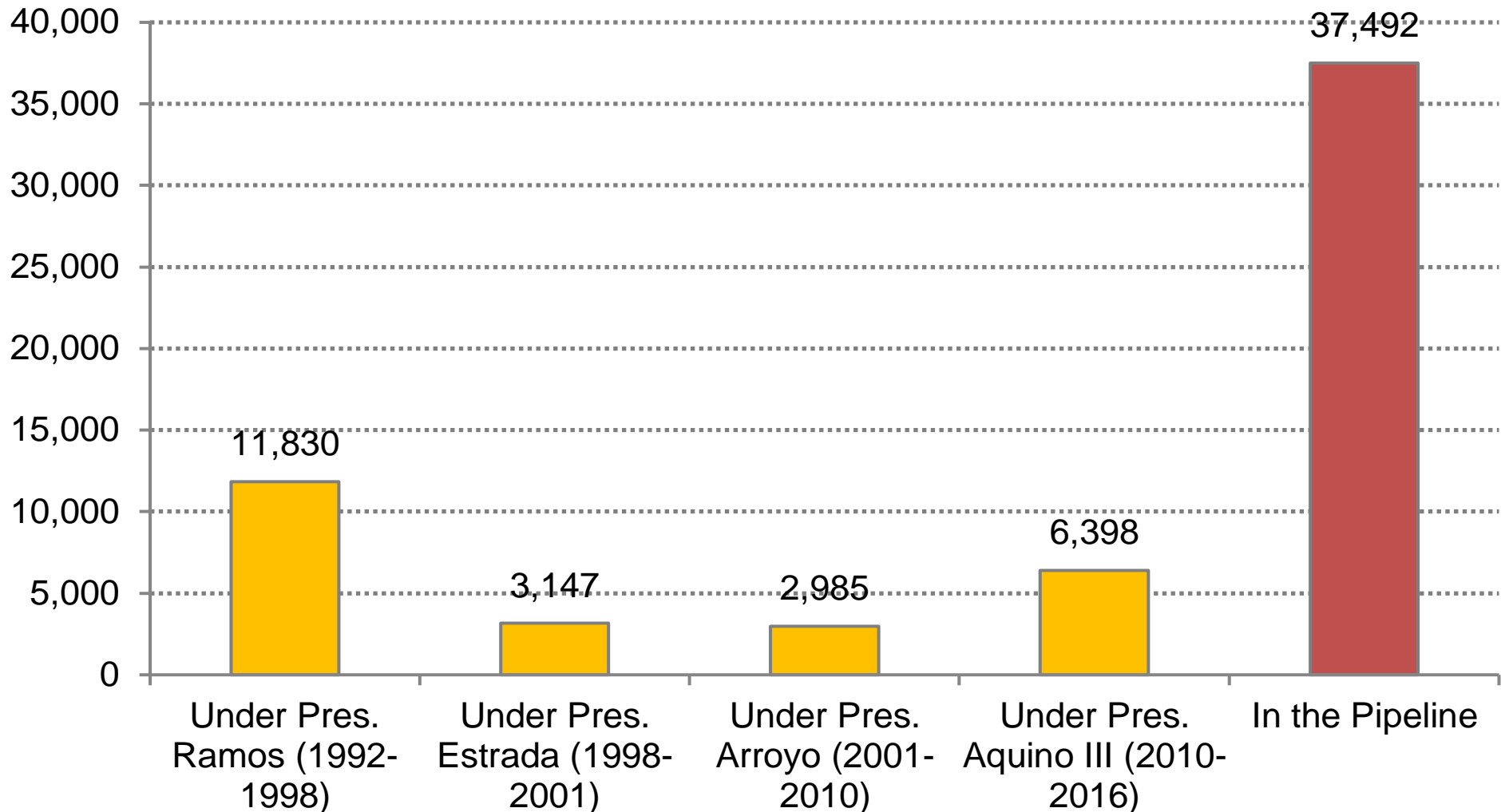


*Note on the above PLCs indicators:
Refers to data compiled from the following companies:*

- ADHI Karya
- PP Persero (PTPP)
- Waskita Karya
- Wijaya Karya

Social and economic statistics highlight the potential of ASEAN e.g. infrastructure spending

PHILIPPINES: Value of Infrastructure Projects under Public-Private Partnerships or PPP (USDm)



Source: Public-Private Partnership Centre, MKE Economics Research

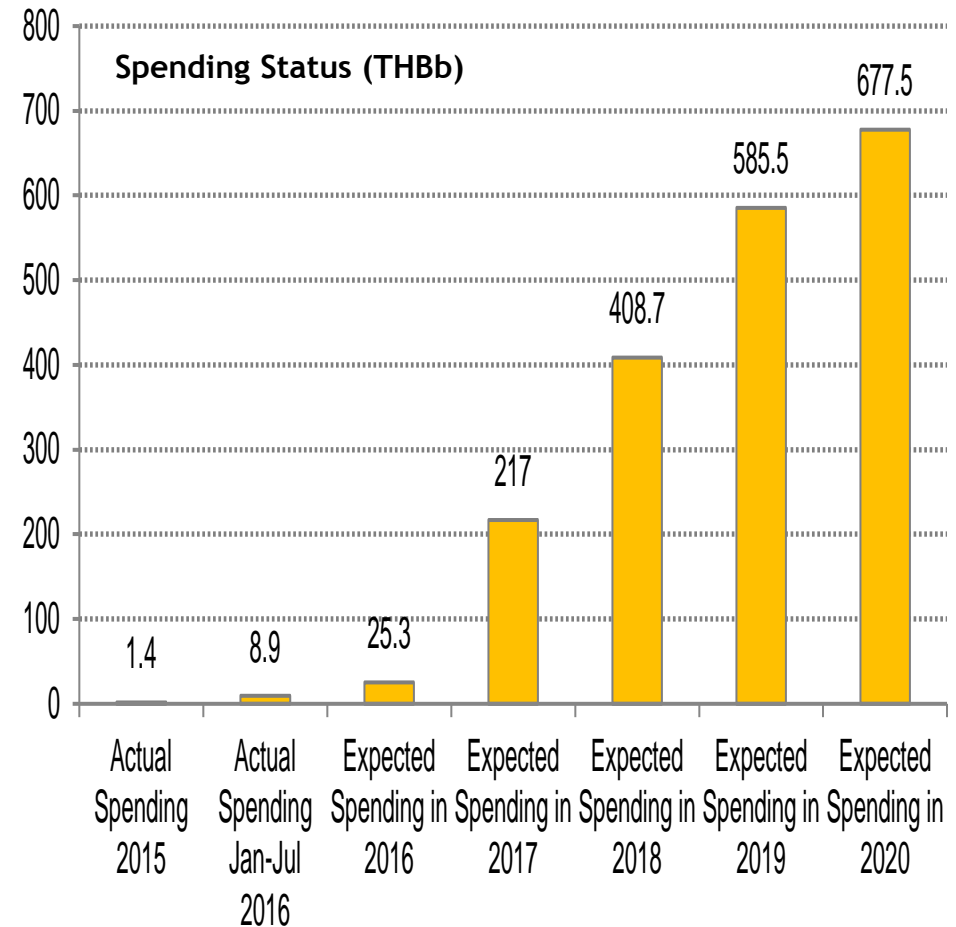
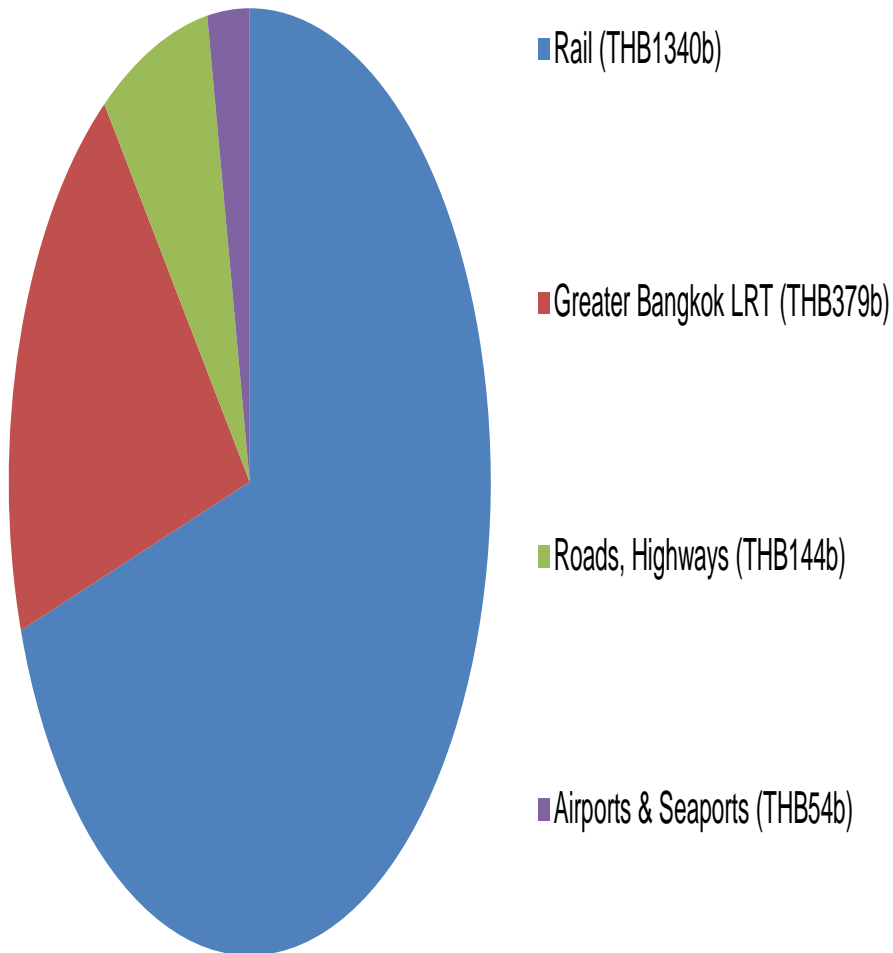
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Social and economic statistics highlight the potential of ASEAN e.g. infrastructure spending

THAILAND: Status of Spending on 20 Projects Under “Accelerated Transport Infrastructure Development Plan”

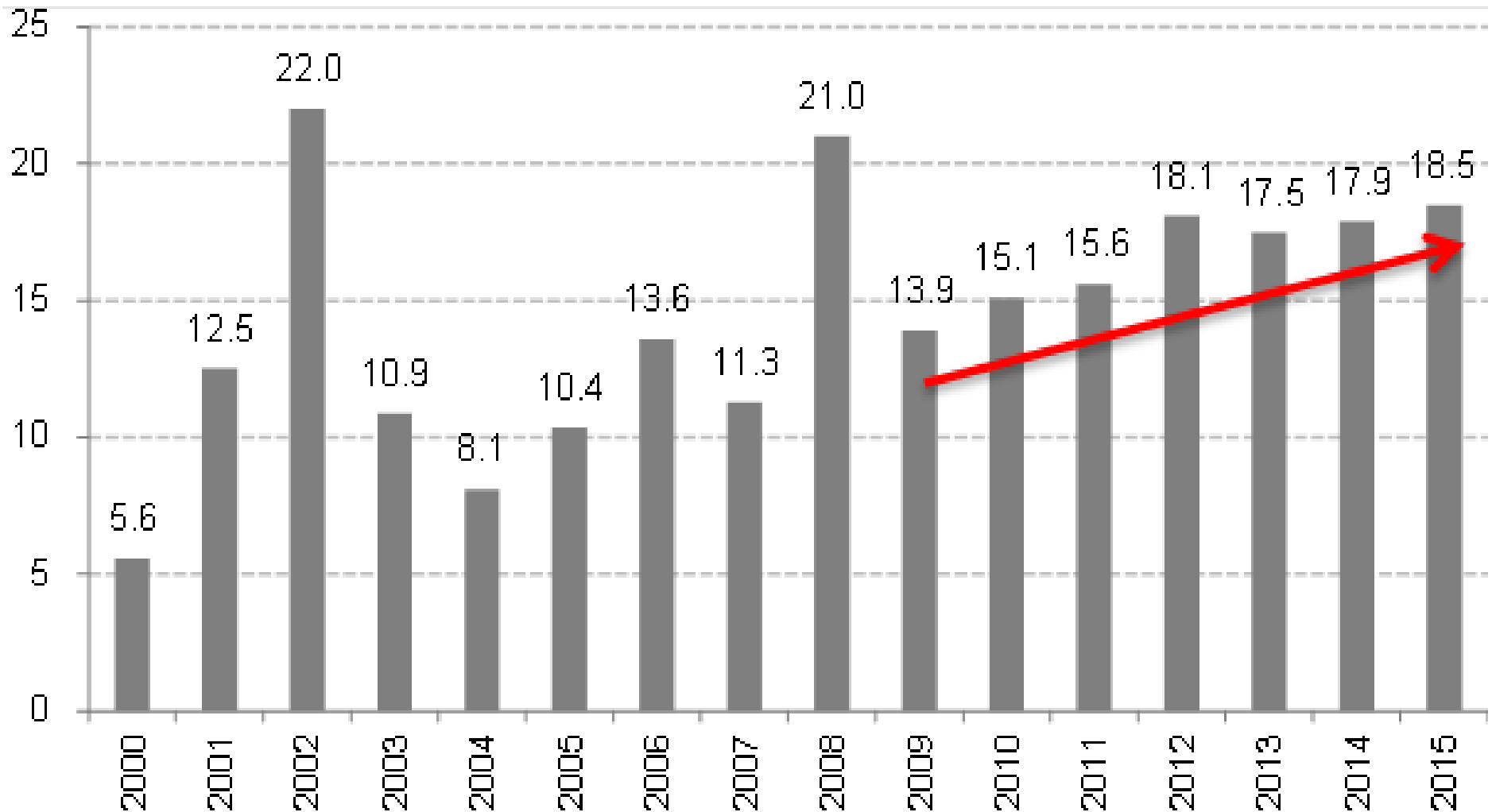
Total, 2015-2022: THB1,916.8b



Source: Office of Transport and Traffic Policy and Planning, Ministry of Transport, Local Media, MKE Economics Research

Social and economic statistics highlight the potential of ASEAN e.g. increasing ASEAN economic integration

Intra-ASEAN FDI as % of Total FDI into ASEAN

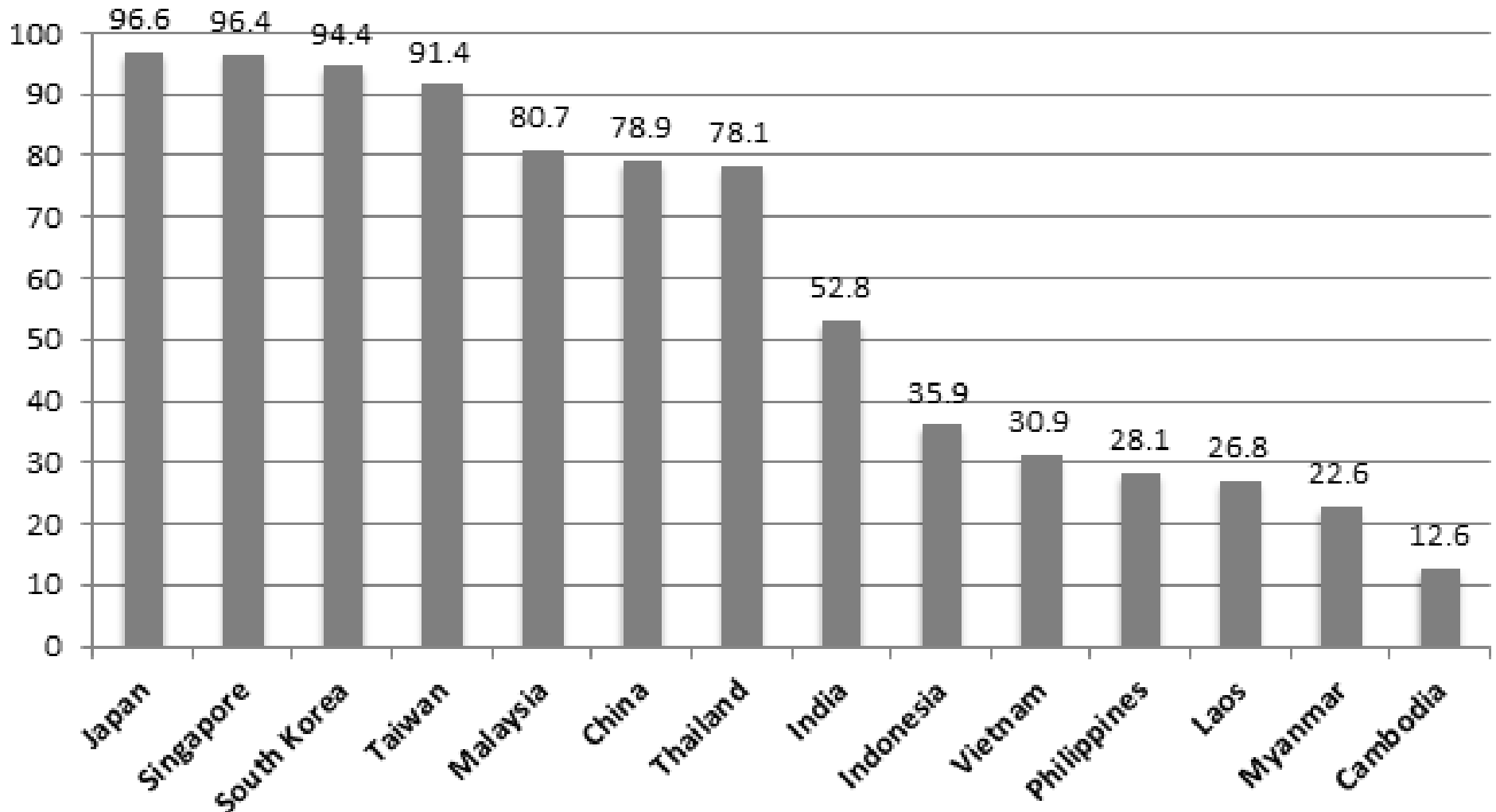


Source: ASEAN Secretariat

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Social and economic statistics highlight the potential of ASEAN e.g. low penetration of basic banking services → upsides for financial inclusion

% of Population at 15 Years Old and Above with Accounts at Financial Institutions

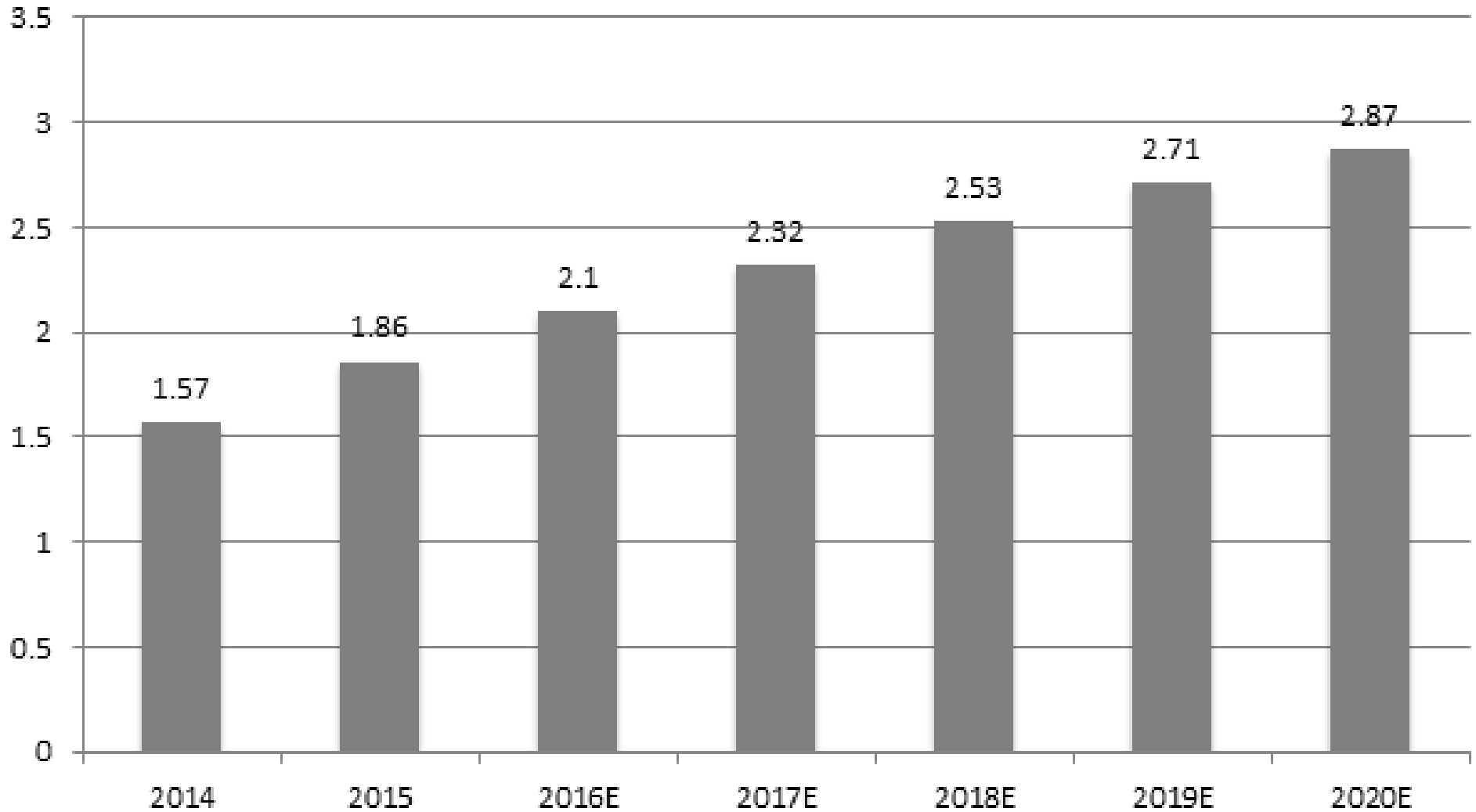


Source: World Bank

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Innovation in Financial Services

Number of Smartphone Users Worldwide (billion)



Source: Statista

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Innovation in Financial Services



Source: Maybank Digital

Innovation in Financial Services

New banks by
Technology Companies

WeBank
微众银行 By Tencent

网商银行
MYbank By Alibaba



Innovation in money
transfers

Transfer money via FB messenger

Banking as a service
on the "Cloud"



cloud banking



P2P Lending
Crowdfunding

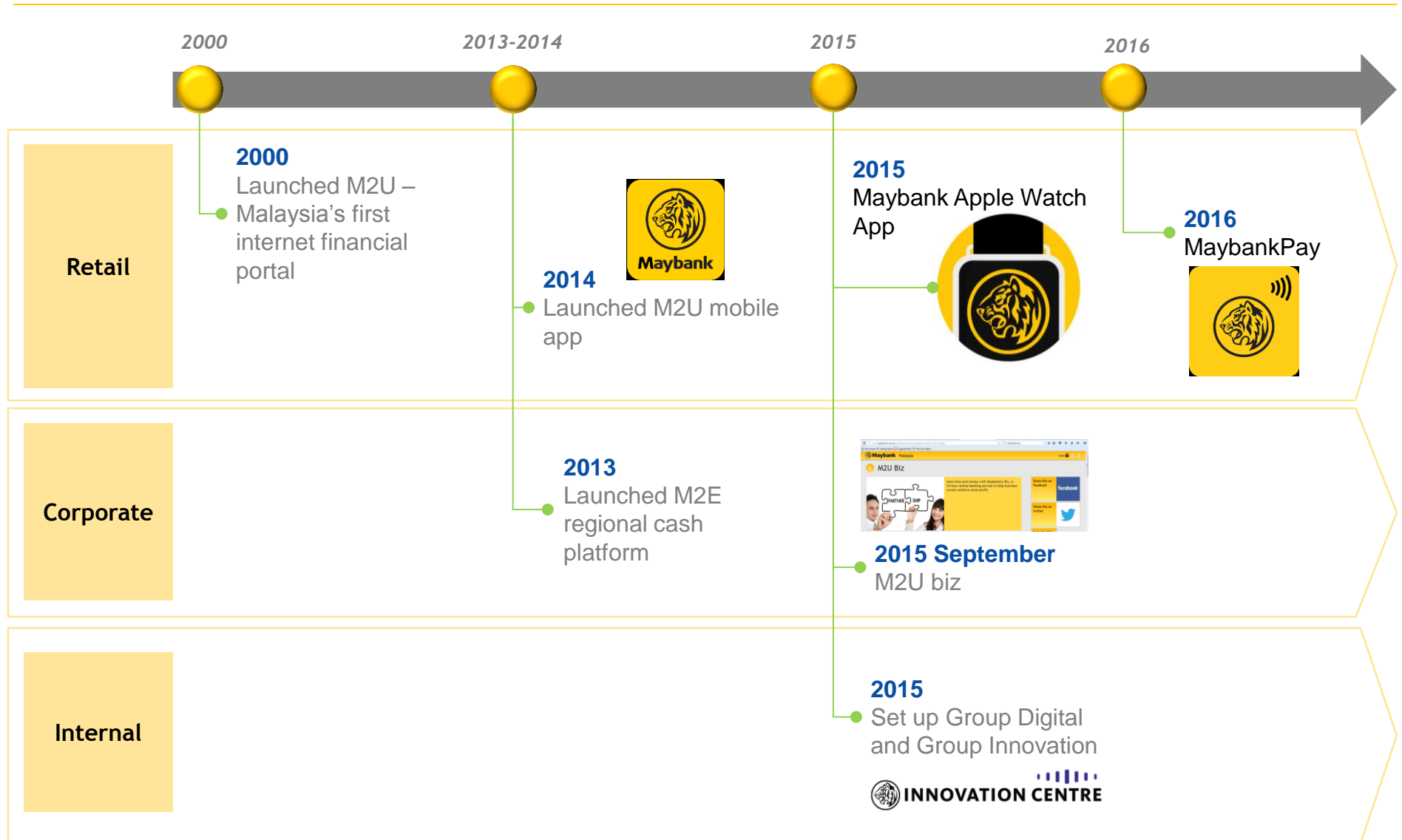


Mobile Payment / eWallet

Payment systems
by
Tech Companies



Innovation in Financial Services



Source: Maybank Digital

The Current Future of Statistics...

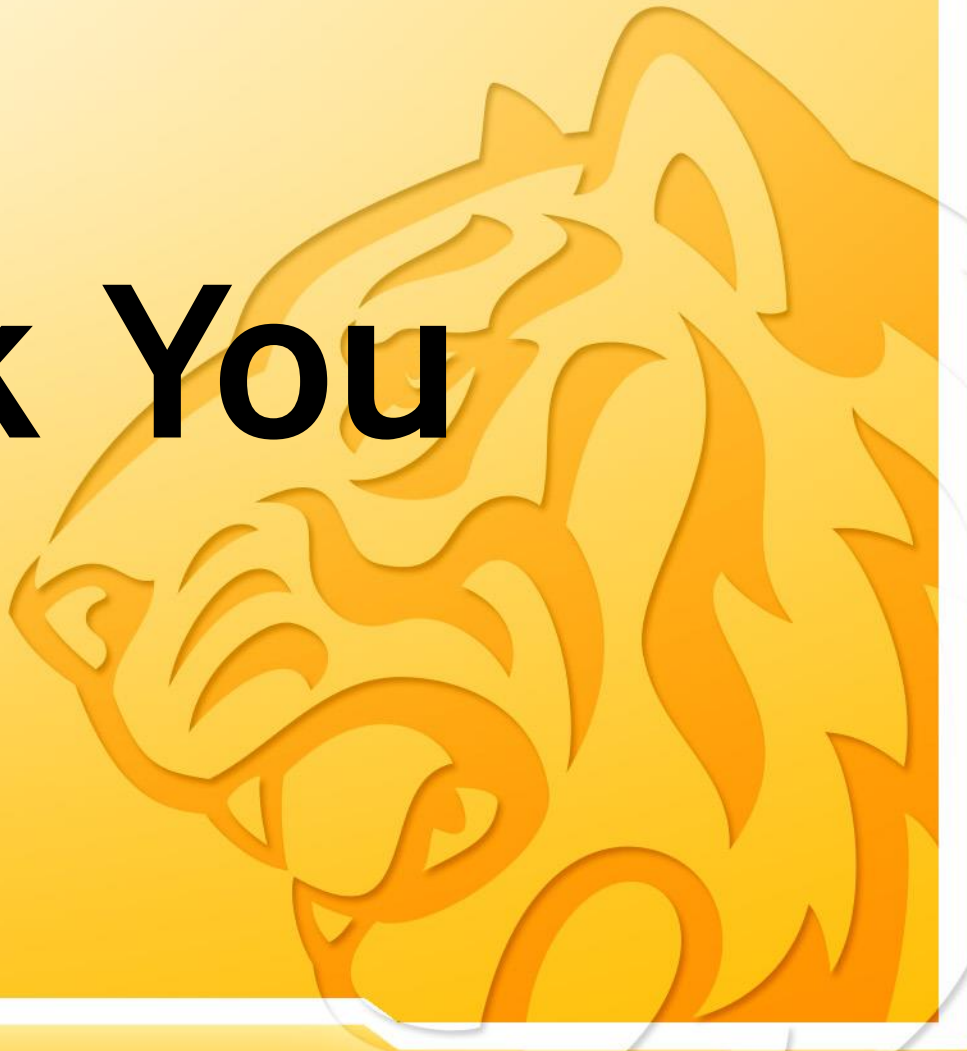
- Financial product & services innovation
 - Access to huge volume of transactions data, information flows
 - Banks use and application of statistics evolves
 - BIG Data analytics
 - Data Scientist & Data Engineers; Coders & Programmers



Maybank

Kim Eng

Thank You



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