Emerging Technologies towards Realising SDGs



Academy of Sciences Malaysia

Think Science . Celebrate Technology . Inspire Innovation



Academy of Sciences Malaysia established in 1995 has the mandate

- To be the 'Thought Leader' of the nation for matters related to science, engineering, technology and innovation.
- To pursue excellence in the fields of science, engineering and technology for the benefit of all.

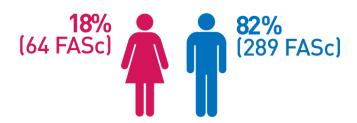
ASM MEMBERS



6 Honorary Fellows

353 Fellows

325 Ordinary Fellows



Fellow of the Academy of Sciences Malaysia (FASc) are elected for life based on their scientific and scholarly achievements through a rigorous selection process.





20 Information Technology & Computer Sciences





Engineering Sciences



64 Medical & Health Sciences





76 Biological, Agricultural & Environmental Sciences



Mathematics, Physics & Earth Sciences



Science & Technology Development Industry



Social Sciences & Humanities

OTHER EXPERTS



40 Associates

A pool of diverse expertise appointed on a two-year terms to fullfil the increasing interdisciplinary demand of knowledge

133 TRSM

Top Research Scientitsts Malaysia

Recognition of outstanding active research scientists for their work in various disciplines

158 YSN-ASM Young Scientists Network

Represent the young voice, committed towards making an impact to society

10MSA Laureates

Mahathir Science Award

Recognition for contributions and innovations towards solving problems in the tropics through S&T



7 Individual



2 Organisations



1 Team







PROGRESSIVE MALAYSIA 2050

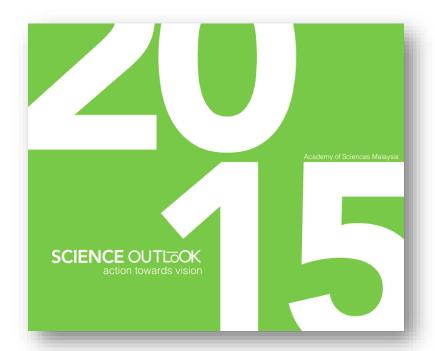




Where do we want to be?

NPSTI REVIEW & FORMULATION STI MASTER PLAN







Macro STI Policy





First National S&T Policy (1986 – 1989)



Second National S&T Policy (2002 – 2010)



National Policy on Science, Technology & Innovation (2013 – 2020)



National Policy on Science, Technology & Innovation (2021 – 2030)



Mega Science (MS) Studies

MS 1.0 (2010): 5 SECTORS (WEHAB)











RATIONALE

Addressing basic necessities

MS 2.0 (2013): 5 SECTORS (HITEE)







Infrastructure



Transportation



Environment



Electronics

Tackling people's well-being

Catalysing key economic sectors through STI for wealth creation

MS 3.0 (2015): 5 SECTORS (FACT/PC)











Plastics & Composites

Source: ASM Mega Science Agenda, 2016

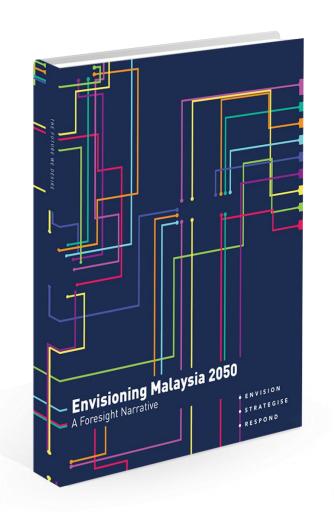
HOW

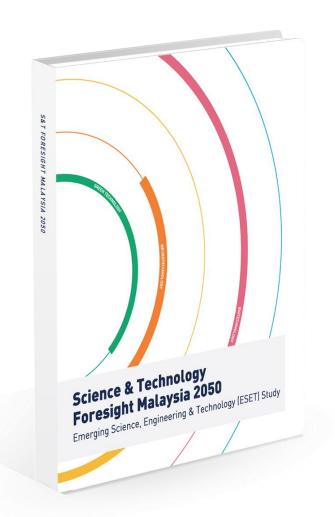
PLAYS

A ROLE

STI













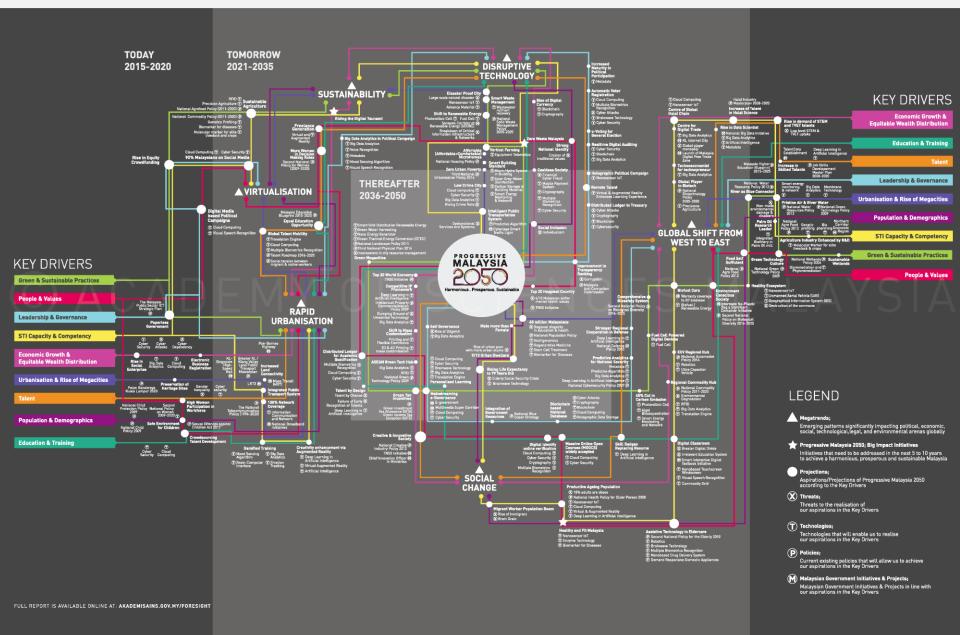
Source: ASM Malaysia 2050: Foresight Report, 2017

PROGRESSIVE MALAYSIA 2050:

TRENDS AND ATTRIBUTES MAP









Technology Areas in ESET Study



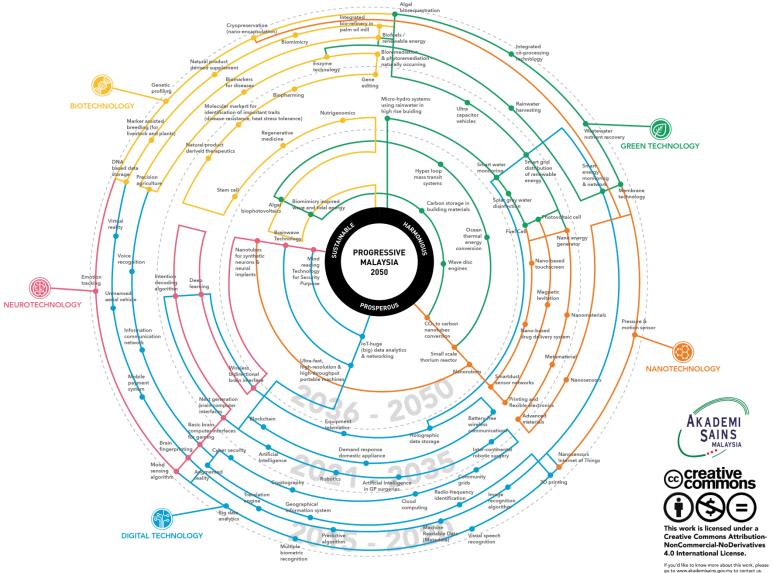
Crucial emerging technologies for the realisation of SDGs towards 2030 from the perspective of scientists

Energy technologies as well as information, communication and computer technologies maybe the two most crucial technology clusters for the SDGs (Global Sustainable Development Report 2016)

Emerging Science, Engineering and Technology (ESET)

AKADEMI SAINS MALAYSIA

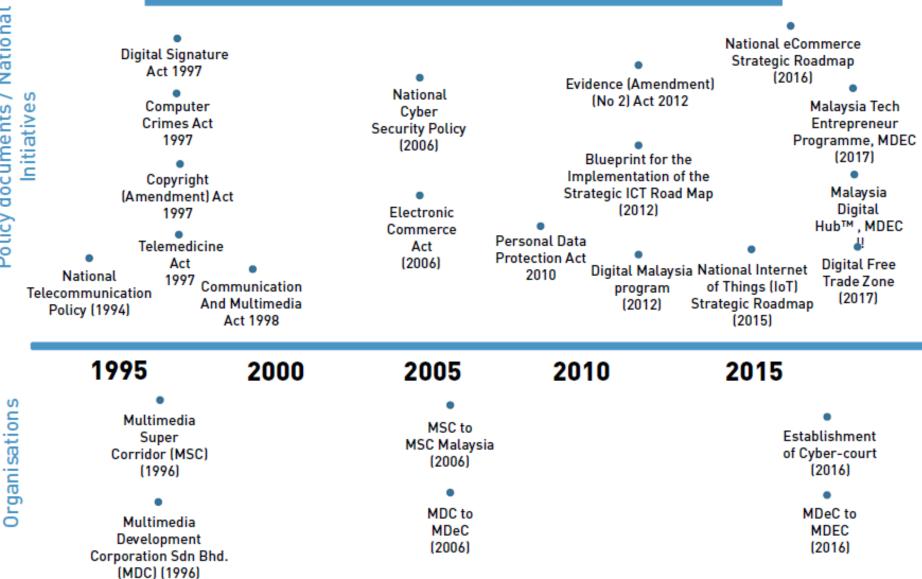
Malaysia's 95 Emerging Technologies 2015 - 2050



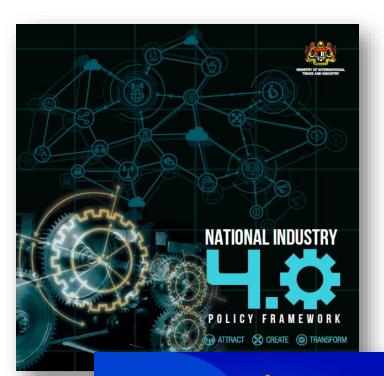
o contact us.

Nationa Policy documents /

Digital technology development in Malaysia



Source: ASM ESET Study, 2017













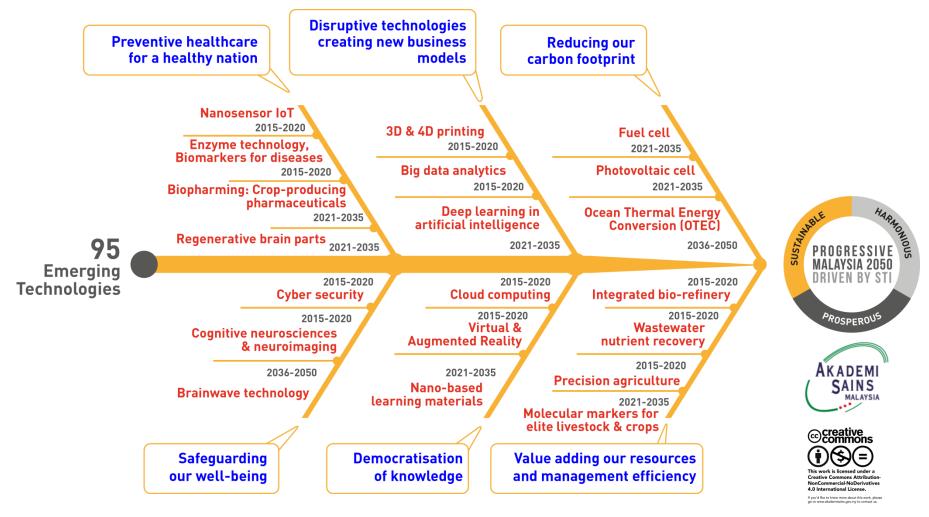
Malaysia's National **eCommerce** Strategic Roadmap

Businesses, large and small, now have a powerful opportunity to be part of a global growth story. Backed by the right initiatives, Malaysia could double the growth of its eCommerce market.





Technology Tree: 21 Impactful Emerging Technologies for Malaysia's Well-Being, Wealth Creation and Governance



Source: ASM S&T Foresight Malaysia 2050

Report, 2017



Accelerate socio-economic transformation leveraging the digital tsunami towards:

- Reducing the inequality divide between the rural and urban population by increasing accessibility, affordability and availability of technological interventions
- 2. Enhancing livelihood through creation of new business models utilising disruptive technologies
- Democratisation of knowledge to empower people to make informed decisions



Thank You

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