



WEF NEXUS APPROACH IN MALAYSIA

MINISTRY OF SCIENCE, TECHNOLOGY
AND INNOVATION MALAYSIA (MOSTI)

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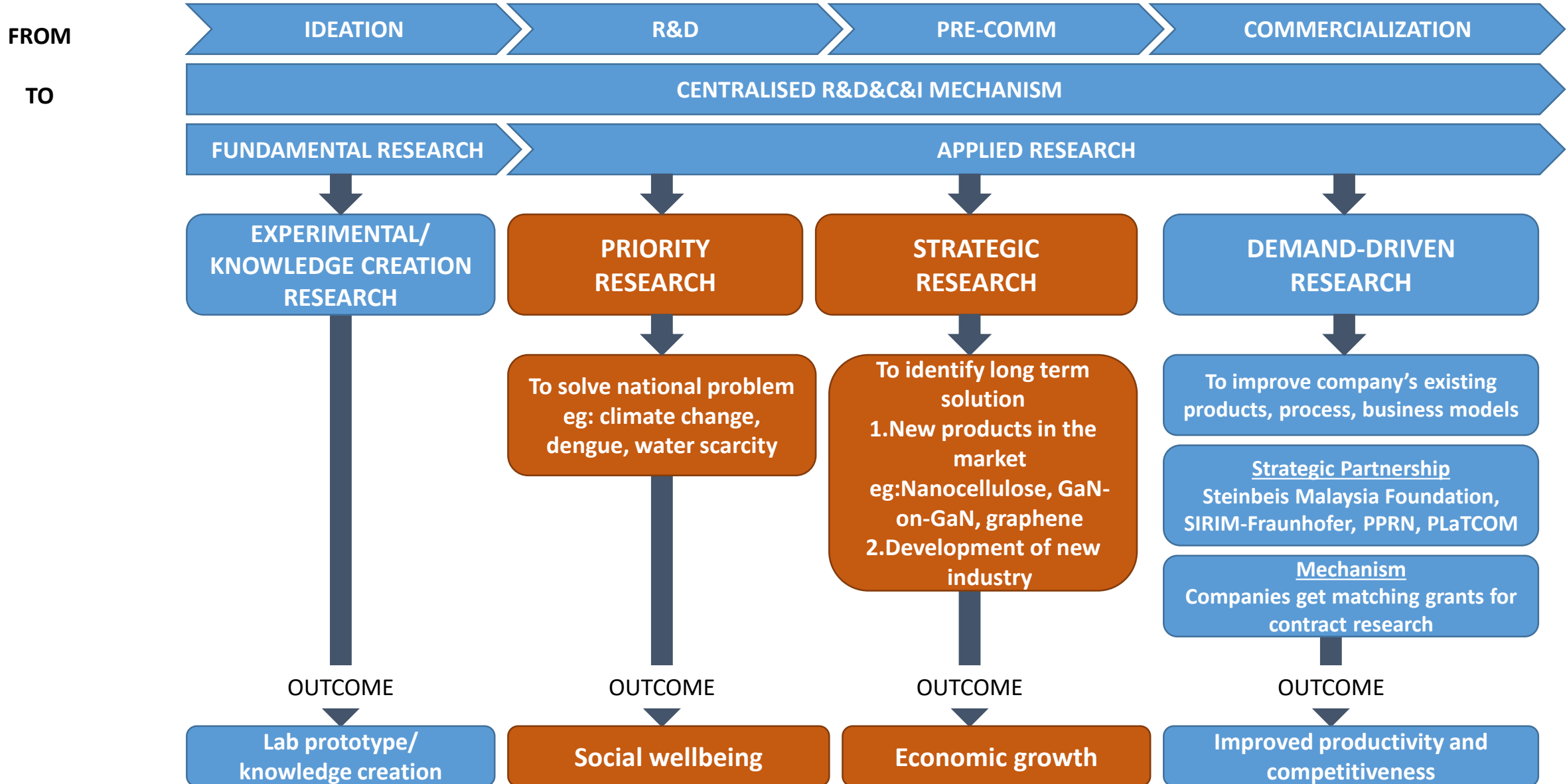
OUTLINE

- **11th Malaysia Plan (Strategy Research-Paper 21)**
- **Existing Priority Research Areas**
- **R&D Themes**
- **Challenges & Opportunities WEF Nexus in Malaysia**

11TH MALAYSIA PLAN (STRATEGY RESEARCH - PAPER 21)



NEGARAKU



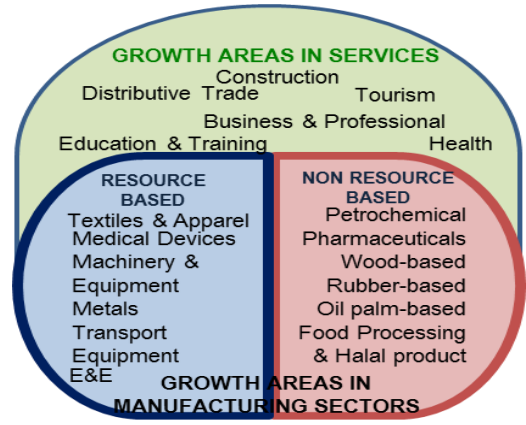
R&D PRIORITY AREAS

-  FOOD SECURITY
-  WATER SECURITY
-  CYBER SECURITY
-  ENERGY SECURITY
-  GREEN TECHNOLOGY
-  ENVIRONMENT & CLIMATE CHANGE
-  TRANSPORT & URBANIZATION
-  MEDICAL & HEALTHCARE
-  PLANTATION CROPS & COMMODITIES

MEGA SCIENCE



INDUSTRIAL MASTERPLAN 3



NATIONAL FORESIGHT

- Advanced Manufacturing
- Food Security
- Future Energy
- Medical & Healthcare
- National Security & domestic safety
- Plantation crops
- Transportation
- Waste Management
- Water Security

NATIONAL KEY ECONOMIC AREAS



Cross Cutting Technologies

- ✓ ICT
- ✓ Biotechnology
- ✓ Nanotechnology



EXISTING R&D PRIORITY AREAS

-  FOOD SECURITY
-  WATER SECURITY
-  CYBER SECURITY
-  ENERGY SECURITY
-  GREEN TECHNOLOGY
-  ENVIRONMENT & CLIMATE CHANGE
-  TRANSPORT & URBANIZATION
-  MEDICAL & HEALTHCARE
-  PLANTATION CROPS & COMMODITIES

THEMATIC AREAS



WATER, FOOD & ENERGY NEXUS



GREEN GROWTH & SUSTAINABLE DEVELOPMENT



MEDICAL & HEALTHCARE

ENABLERS

- ✓ Digital Technology
- ✓ Biotechnology
- ✓ Nanotechnology
- ✓ Green Technology
- ✓ Neuro Technology

CHALLENGES



NEGARAKU

- Understanding of WEF Nexus
- Silo mentality (ministries and agencies)
- Bureaucracy (ministries)
- Funding

OPPORTUNITIES



- Better understanding on WEF Nexus
- TN50 - A 30 years strategic plan
- The formulation of National Science Council
- Strategic partners from the private sector



**THANK
YOU**

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ELEVENTH MALAYSIA PLAN

2016-2020

ANCHORING GROWTH ON PEOPLE

Preparing people for the future:

We need a nation where the *rakyat* are prepared for a future that is increasingly knowledge-based. This means investing in talent and skills development, increasing productivity, and unleashing the power of innovation.