





TM'S SUSTAINABILITY JOURNEY



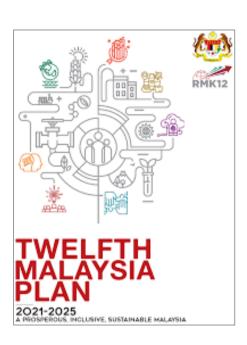
Khazanah's Silver Book launched as part of the GLC **Transformation Programme**



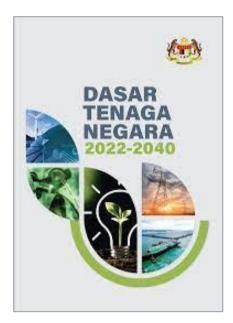
KeTTHA launches the **Green Technology Master** Plan Malaysia 2017-2030



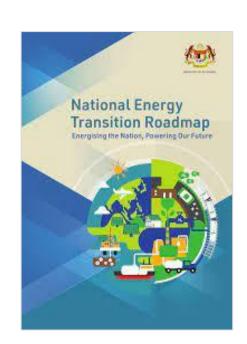
KeTTHA launches the National Green **Technology Policy**



12th Malaysia Plan published with the ambition to achieve net zero emissions by 2050



Dasar Tenaga Negara launched by EPU



Ministry of Economy launches National Energy **Transition Roadmap**

2006

2008

2017

2019

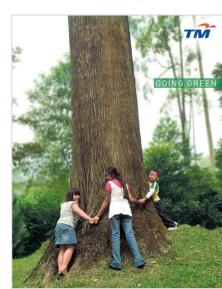
2020

2021

2022

2023

Published first GRI Sustainability Report



Published our first **Integrated Annual Report**



FTSE4Good

Started to disclose on Committed to CAN Bursa FTSE4Good



Started to disclose on the Carbon Disclosure Project

Sustainability becomes Published our first **Board Agenda**



Sustainability KPI cascaded to key senior management

set of ESG

Commitments

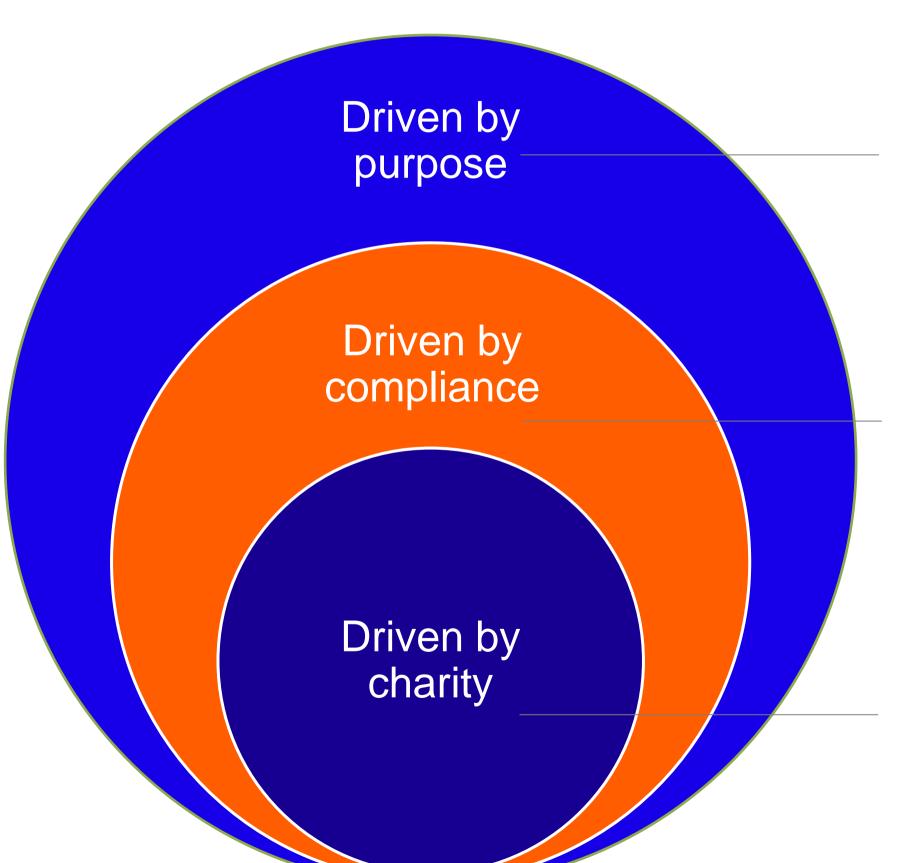






SUSTAINABILITY ENABLES US TO CREATE LONG-TERM VALUE PROPOSITIONS AS PART OF OUR BUSINESS STRATEGY





Sustainability (EESG):

Creation of long-term
stakeholder value through the implementation of a business strategy which focuses on sustainable development

Eg: Reducing carbon emissions makes business sense to TM. It reduces our operational costs and adds customer value to our products and services.

ESG:

Commitments are made to fulfil obligations to government, regulators and investors

Eg: We aim to reduce our carbon emissions by 45% by 2030, in line with Malaysia's National Determined Contributions (NDCs)

CSR:

Doing what feels good for the community and for the environment

Eg: We plant trees to green the environment



Competitive edge

Business value

Resilience

Accountability

Stakeholder management

Risk management

Community development

Nation building





SNAPSHOT OF INTERNAL SUSTAINABILITY EFFORTS



NETWORK ELEMENT MIGRATION

Network modernization, ensuring that high efficiency network elements are maximized. This resulted in reduced energy consumption of almost 10 million kwh and a cost saving of RM4.59 million

ENERGY EFFICIENCY OPTIMIZATION

Reduced electricity consumption at 233 sites with cost savings of almost RM 2 million and energy reduction of almost 3 million kwh

COOLING UNIT UPGRADING

By replacing 564 conventional air conditioning units with more energy efficient units, we reduced our energy consumption by 1.3 million kwh, a savings of RM0.66 million





DATA CENTERS & NODES POWERED BY RENEWABLE ENERGY

Three of our data centers and four of our nodes are now powered by RE mix

Current renewable energy subscription: 52 million kwh per year





OFFERING SUSTAINABLE SOLUTIONS

LANGKAWI

5G Integrated Operations Command Centre for Smart Traffic Lights, Smart Parking, Smart Safety & Security Solutions, Langkawi Smart Tourism App, Gerbang Langkawi Platform for smart water management system and other solutions

IPOH

Improved traffic flow by 51% using TM One's Smart Traffic Analytics and Recognition System. This led to reduction in carbon emissions by 7,500kg per month



SUBANG JAYA

Deployment of 5G-enabled solutions: Smart Traffic Light, Smart Parking and Smart Safety & Security solutions

KULAI

Upgrade surveillance facilities at targeted areas, maximize the use of public parking lots using TM One's Smart Parking System

KUCHING

Smart street lighting and analytic surveillance - helps local councils detect and respond to any incidents quickly

KELANTAN, PERLIS, PENANG, SELANGOR, JOHOR

Smart traffic lights that respond to real-time data collected by connected cameras and sensors

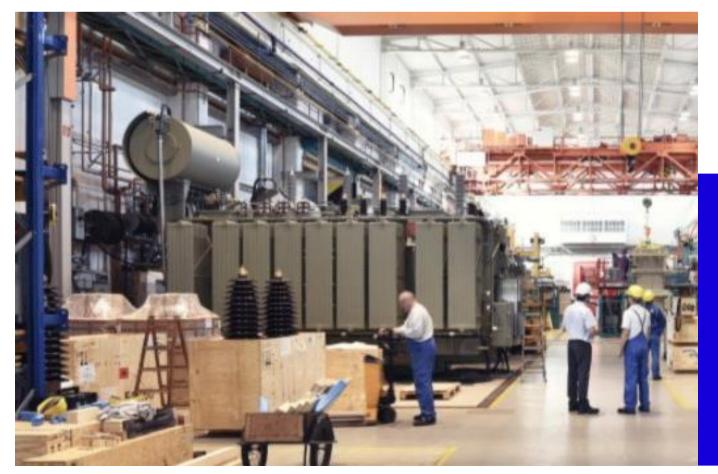
CYBERJAYA

Reduction in waiting time along Persiaran Multimedia by 65%



OFFERING SUSTAINABLE SOLUTIONS





SMART HEALTHCARE

Using the Internet-of Things (IoT) for automation and to enable patients to customize their in-patient environment

SMART AGRIGULTURE

Using smart automated irrigation, harvesting and crop processing solutions – reducing wastage, improve quality of crops, pest control, enhance safety



SMART MANUFACTURING

Using Operational Equipment Effectiveness (OEE) to digitize equipment management, maximize workforce efficiency by reducing manual work, virtualization of data and statistics, integrated continuous improvement, predictive analysis for improved decision-making



IMPORTANT LESSONS LEARNT



SUSTAINABILITY NEEDS
TO MAKE BUSINESS
SENSE & CREATE VALUE
TO THE COMPANY







START BY GETTING TO KNOW AND CLEANING UP YOUR OWN BACKYARD

CREATE BASELINES

LOW-HANGING FRUITS



BUILDING AN INTERNAL CULTURE OF SUSTAINABILITY

CAPACITY BUILDING

POLICIES

THANK YOU

