

HELPING THE WORLD IN ACHIEVING SDG THE LANDSCAPE ARCHITECTS PERSPECTIVE

National Landscape Day 2021

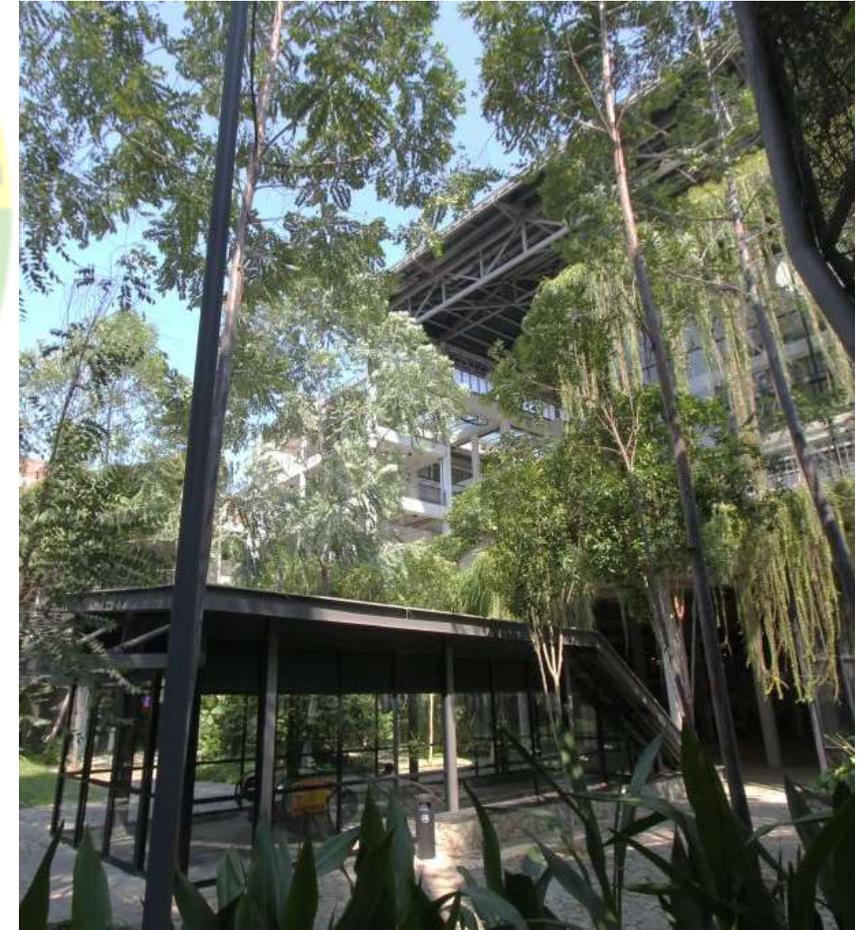
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President, ILAM

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Our Landscapes





Our Issues

- Noise
 - Water pollution
 - Air pollution
 - Visual blight
 - Natural disaster
-
- Social inequality
 - Economic disparity





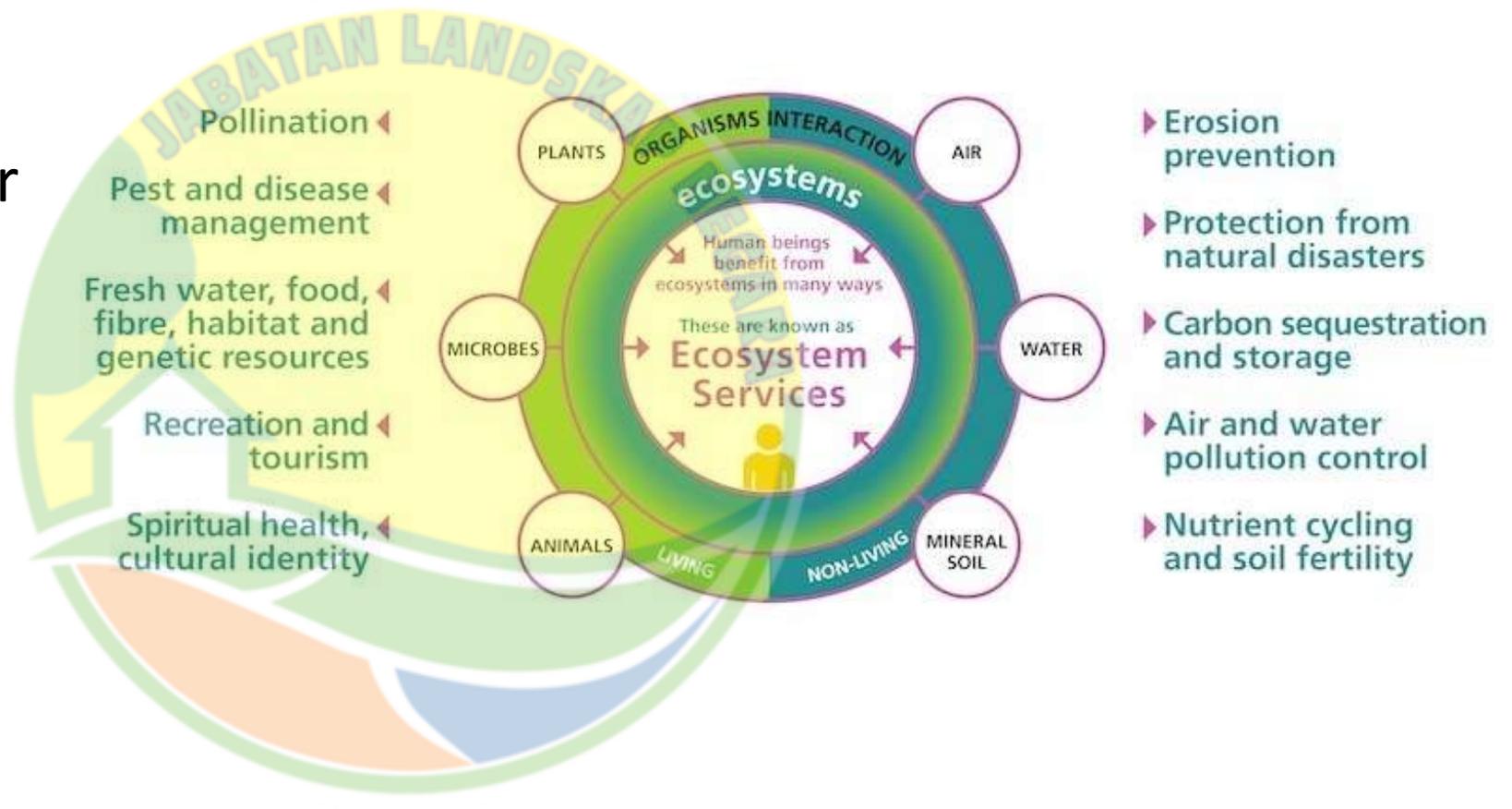
The World in 2050

Herdt, 2014

- More people, more crowded
- More polluted
- Hotter and dryer
- Better connected
- More volatile weather and price of goods
- Wealthier on average, income inequality
- Food security

Impacts

- Do we get what we want/should from our environment?
 - Functional ecosystem services
 - Is it good or bad?
 - Values and benefits
 - Biodiversity
 - Economy
 - Social
 - Psychological



The Start of an Era



"**Sustainable development** is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

Gro Harlem Brundtland (1987)

- *Former Prime Minister of Norway*
- *Former Director General of WHO*

**OUR
COMMON
FUTURE**

THE WORLD COMMISSION

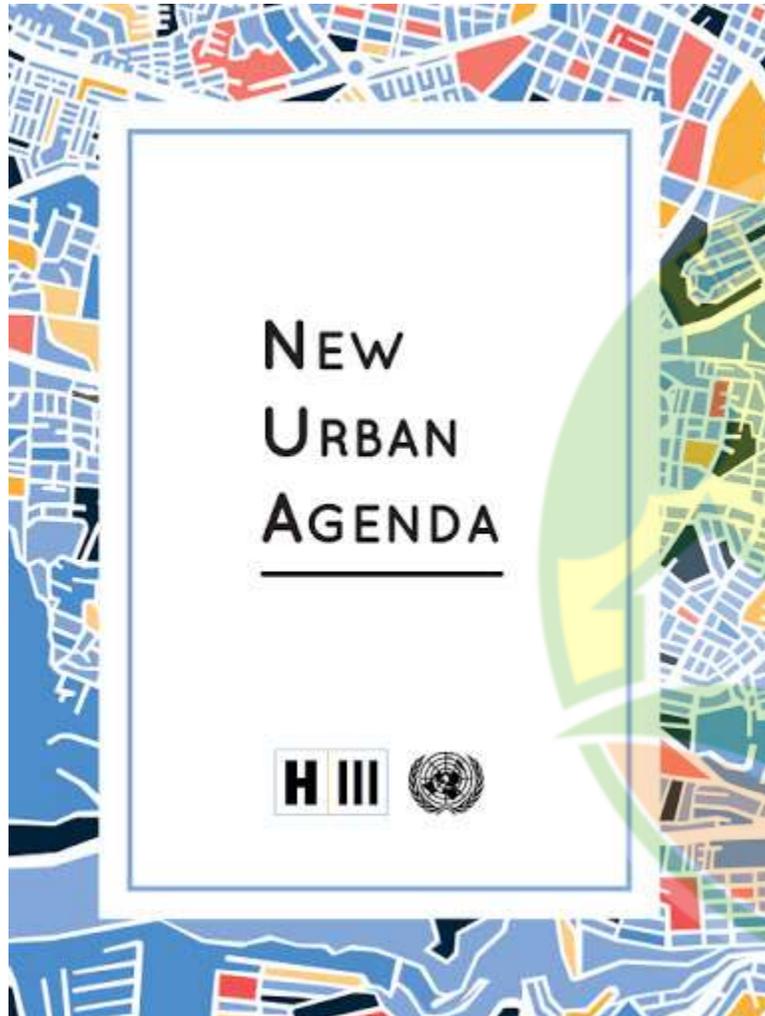
ON ENVIRONMENT

AND DEVELOPMENT

SDG: 15 years Plan

- Comprehensive
 - 17 goals
 - 169 targets
 - More than 200 indicators
- Holistic
 - 5 dimensions
 - People
 - Planet
 - Prosperity
 - Peace
 - Partnership
- Universal
- Top down/Bottom up





- A program under UN Habitat office
 - Also known as Habitat III
 - Declared in Quito, Ecuador in 2016
 - open discussions on important urban challenges and questions
 - how to plan and manage [cities](#), [towns](#) and [villages](#) for [sustainable development](#).
 - [Tackling climate change](#) issues
 - Elaborate on the [Sustainable Development Goals no 11](#)
 - Make cities and human settlements inclusive, safe, resilient, and sustainable

National Action

- SDG Voluntary National Review 2017

- Mapping and Roadmap Preparation
- Status
 - Achievement with current policies and action plan

- Aligning SDG

- 13th Malaysian Plan
- Existing and Future Policies

- Governance

- EPU, Prime Minister Department
- 5 Cluster
 - Inclusivity, Well Being, Human Capital, Environment and Natural Resources, Economic Growth
- 17 Working Groups

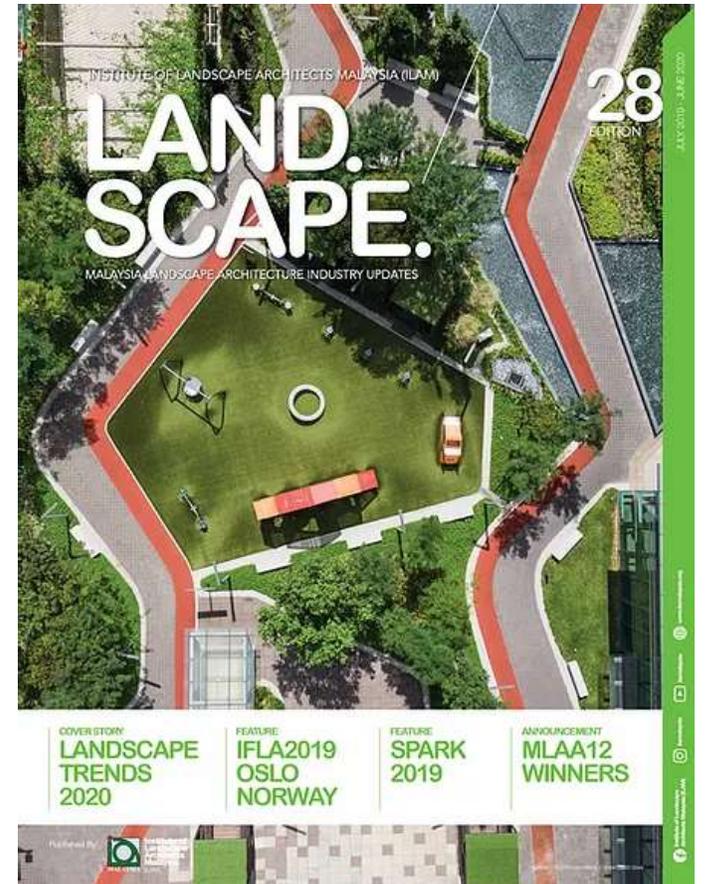
- Issues

- Complex and cross cutting issues
- Growing demand for public participation and social thrust
- Implementation and Innovation
- Monitoring and evaluation



LANDSCAPE ARCHITECTURE

- What is Landscape Architecture
 - Landscape architecture involves the planning, design, management, and nurturing of the built and natural environments (ASLA, 2020)
 - Landscape architecture combines design with the environment, art with science. It is about everything outside the front door, both urban and rural, at the interface between people and natural systems (ILAM, 2020)
- What is Landscape Architects do? (ASLA, 2020)
 - Landscape architects work to improve human and environmental health in all communities. They plan and design parks, campuses, streetscapes, trails, plazas, residences, and other projects that strengthen communities (ASLA, 2020)
 - Landscape architects are broad thinkers who thrive on the big picture. They are playing an increasingly important role in addressing the great issues of our day: climate change, sustainable communities, water, housing and the prevention of hunger (ILAM, 2020)





Roles of Landscape Architects

- Plan and design of landscape with the knowledge of arts, science and technology in the quest for sustainability for better quality of living
- Involvement
 - Environmental Planning - (EIA)
 - Planning
 - Regional (Structure and Local Plan)
 - Site (Development Order)
 - Design
 - Building and Landscape Plan
 - Post construction
 - Maintenance and operation
 - Special and Feasibility Study



SDG and Landscape Architecture

- The most effected SDG

- Clean water and sanitation
- Industry, innovation and infrastructure
- Sustainable cities and communities
- Climate action
- Life on land
- Partnership

- Roles of Landscape Architects

- Landscape architects work to improve human and environmental health in all communities
- Landscape architecture involves in the planning, design, management, and nurturing of the built and natural environments



Landscape Architecture Agenda LAA2050



VISION: Landscape as a base for wellbeing and inspires living, through innovative technology and sustainable values.

VALUES: Landscape Architects need to be key players in planning and designing the built environment and take a more influential role to lead and inspire design solutions that will shape our future, for better living environment for all

LAA2050 Lead-Aspire-Alive



Landscape Architecture Agenda 2050

Lead / Aspire / Alive

Vision

Landscape as a base for wellbeing and inspired living through innovative technology and sustainable values.

Value

Landscape architects need to be key players in planning and designing the built environment and take a more influential role to lead and inspire design solutions that will shape our future, for a better living environment for all.

CURRENT ISSUES

With massive urbanisation and increase in the world population projected for the next 30 years, it is believed that there will be greater pollution, and we will experience an increase in climate change phenomena, escalating food security issues and a lack of open spaces. Studies show the world population will increase to 9.7 billion from the current 7.5 billion, while the projected Malaysian population will reach 44 million by 2050, with more than 50% living in urban areas and cities.

Resolving the issues and needs that we may face in the future, landscape architects can play a vital role in the country's development, with innovative planning and design providing better and more inspirational living environments for all.

Our Vision towards the Future

In combating the increased issues looming on the horizon, the Institute of Landscape Architects Malaysia (ILAM) is taking a proactive and bold step, to pave the direction for our professional practice, and to play a more influential role in national development.

A vision for the next 30 years

Landscape Architecture Agenda 2050 (LAA2050) is a 30 years agenda, comprising our vision and 10 Strategic Focus Areas (SFA) required to drive the landscape architecture professional forward.

The initiative framework is in a developmental process until now, when it will be implemented in full force, leading to 2050.



10 STRATEGIC FOCUS AREAS

01 VISIBILITY

Landscape architects should be more vocal and engaging in political debates, collaborate and cooperate with related organisations in order to be relevant, influence decision makers and think big.

02 RESOURCE MANAGEMENT

Landscape architects should safeguard and incorporate effective resource management in each design approach, primarily the fragile environmental components of water, air, food, waste, and natural and sensitive ecosystems, via observation, preservation and/or rehabilitation efforts.

03 EXPERIENCES AND NEEDS

Landscape architectural design should emphasise user experiences, such as inclusion of local social and cultural values, community engagement and participation in the design process, promote local identity and image, and cater to the needs of the less fortunate via universal design.

04 CONDUCTIVE LIVING

Over-population has caused a deterioration in the quality of life, hence, promoting conducive and inspiring living environments should be a key priority for landscape architects. Key strategies include creating more public spaces in urban areas, enhancing blue-green infrastructures (natural and semi-natural landscape elements), promoting food security via urban farming, combating climate change through design, and promoting thermal comfort in every spatial design.

05 SECURITY AND SAFETY

Natural and human threats have escalated in the past decade and landscape architects should play a vital role in designing landscape spaces and places which respond to natural disaster phenomena. These include emergency preparedness, preventing crime via the Crime Prevention Through Environmental Design (CPTED) approach, which focuses on preventing vandalism and non-state violence.

06 ECONOMIC RETURN

Any form of future project should take sustainable economic value into consideration so as to ensure lifelong durability, generate economic returns for local businesses, cultivate positive socio-economic impact, promote green tourism and benefits the stakeholders at large.

07 HUMAN CAPITAL ENHANCEMENT

The landscape architecture industry should focus on the development of leadership, increased productivity, promoting creativity, originality and skills, encouraging ethical competition, promote diversification and adaptability to changes and become an influential and versatile trend setter. To achieve this and to be significantly visible, the number of landscape architects should be increased.

08 BEST PRACTICE

The practicing landscape architecture firms should increase productivity through an organised structure which promotes high efficiency, enhanced best practice standards and quality control in delivering the services.

09 EDUCATION AND RESEARCH

Education and research fields should venture into the discovery of new ideas and philosophies, setting future directions, bridging academia and industry, promoting pragmatic solutions, and increasing involvement in international markets.

10 TECHNOLOGY AND SYSTEM

Promote the landscape architecture industry Big Data (which incorporates the large volume of data - both structured and unstructured) and the use of the internet of things to the inter-networking of physical devices, vehicles, buildings, and other items, embedded with electronics, software, sensors, actuators, and network connectivity which enables these objects to collect and exchange data, application of augmented reality, tools and cutting edge technology in design.

Transformation of Landscape Architecture Practice

- Landscape beyond formal spaces
- Greening beyond plants
- Understand the population/users
- Public base project
- Understand the economy of landscape
- Provide enough expertise and system



Landscape beyond Formal Spaces

- New territory
 - Accidental spaces
 - Natural areas
 - Green strips
 - New spaces



Greening beyond Plants

- Focus on function, values and benefits
 - Green infrastructures
 - Bio-diversity
 - Environmental quality
 - Health
 - Recreation

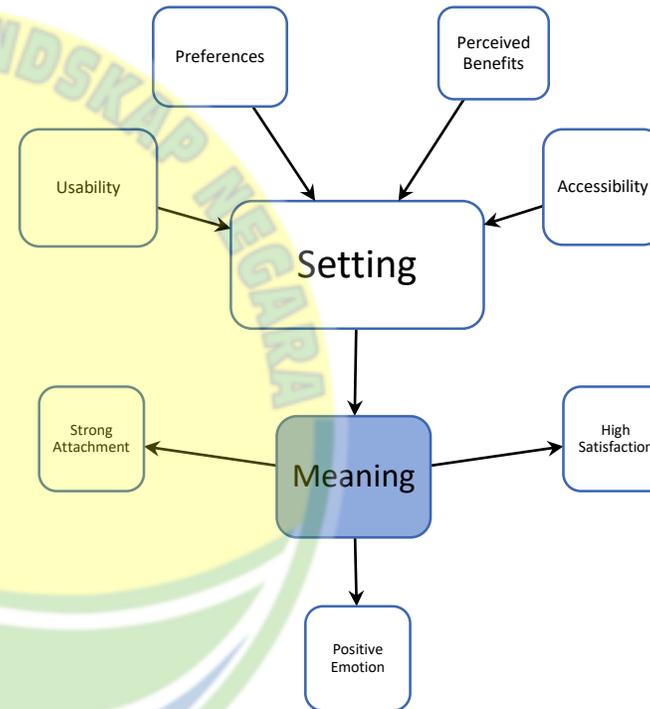


Public Health
and Landscape
Creating healthy places
Landscape Institute Practice Management



Understand the Population and Users

- People perception
 - Demands
 - Concerns
 - Preferences
 - Satisfactions
 - Attitude
- Public participation is a must
 - Bukit Kiara issue



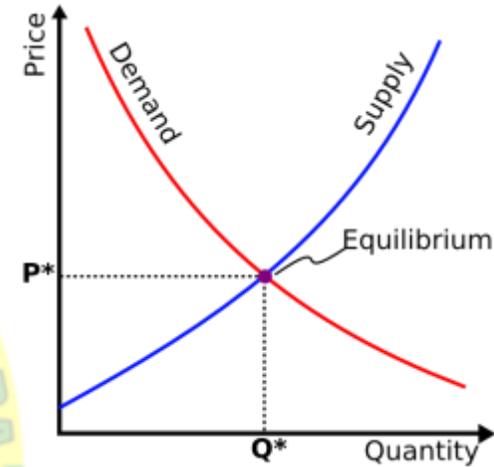
Public Base Project

- Landscape is a public realm
 - Increase public attachment to the landscape
 - Adopt a landscape
 - Rakan Taman
 - Awareness campaign on the importance of landscapes
 - Get together saving the landscapes
 - Environmental and landscape education
- Work with NGOs and Universities



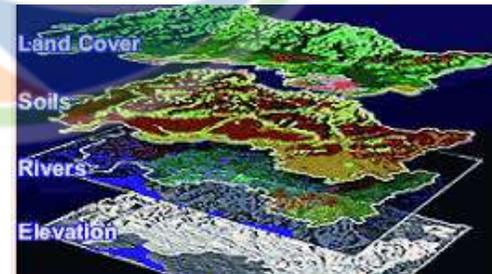
Economy of Landscape

- Study the economy of landscape project
 - Economic values vs profit
 - Values for money
 - Political interest and will
- Budget allocation – Ringgit per acre
 - Based on types of landscapes
 - Supply and demands of spaces
 - Functions and benefits
 - output and impacts
 - Safety and security

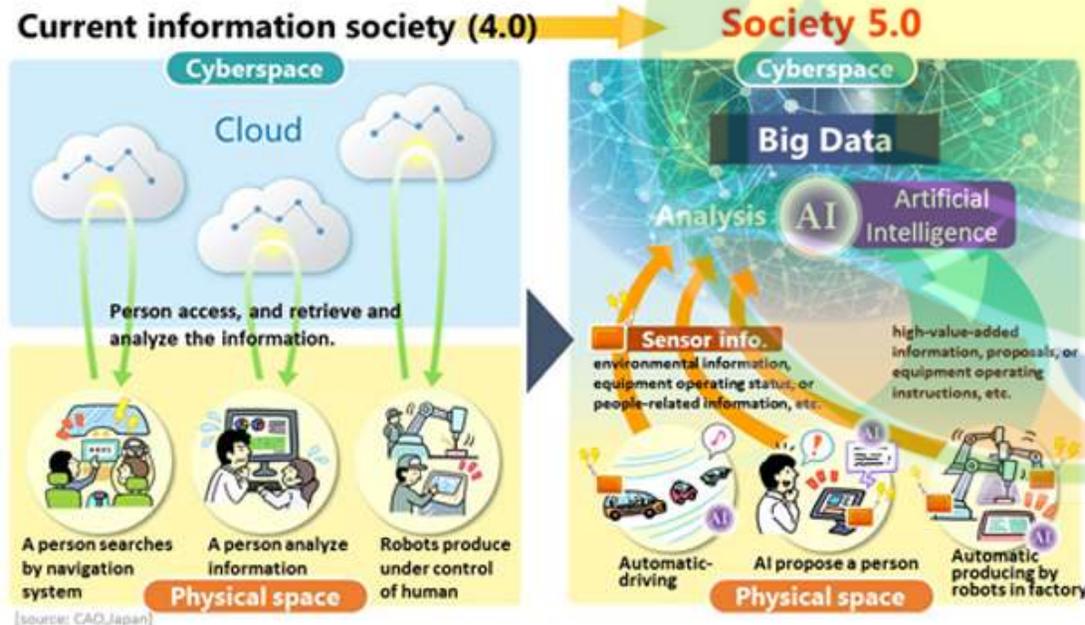
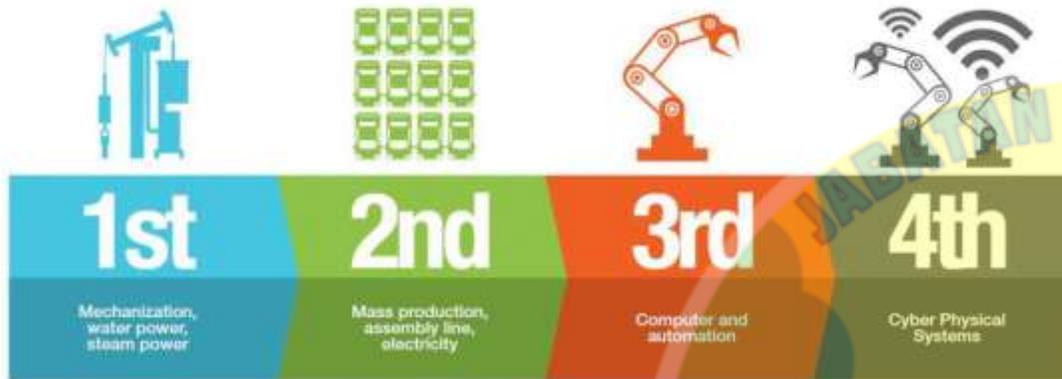


Landscape Expertise

- Dedicated Expertise
 - Landscape architects
 - Park managers
 - Horticulturist/Ecologist/Arborist
 - Big data analyst
- Management system and tools
 - 4.0 industrial revolution
 - Automation
 - Technology and internet base management system



Enhancing IR 4.0 and Embracing Society 5.0



[source: CAQ,Japan]

- Digital society
- Automated living system
- Transient living
 - Change of land use
 - Eco centric attitude
 - New concept of landscape spaces
 - Increase of the needs and demands for public green spaces
 - Automated landscape management system

Landscape Vision 2050

- National Landscape Policy 2020
- Malaysian Landscape Road Map
 - Policy
 - Education
 - Development
 - Industry players
 - Relationship to other economic and social sector
- World Landscape Architecture Summit 2020@2021
 - Future Tense
 - See you in the digital environment in Penang
 - Where people and technology integrate



Reminder,

Man is the actors and the World (Landscape) is the stage

- *William Shakespeare*
- *Lawrence Halprin*

And we are the director, the choice is in our hands
we are the khalifah, steward of the lands

- *Landscape Architects*



Questions?



TERIMA KASIH