ABIS – 16th Annual Colloquium

Sustainable Development Goals and Data Science

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Today I will speak on…

1. Sustainable Development and AIM – An Overview
2. Data Science – The New Opportunity Area
3. Leveraging Data Science for SDG
1 Sustainable Development Goals and AIM: An Overview
Sustainability has been at the heart of AIM’s mission

AIM’s mission has been sustainable growth in Asian businesses and societies by developing professional, entrepreneurial, and socially responsible managers and leaders.

Since our founding year 1968, we have been unwavering in our commitment to promote responsible management education. Since 2008, we have actively supported the UN-PRME.

We instill in our students integrity and high ethical standards, a vision to humanize the corporation, an understanding of ethical implications of decisions, and a sense of personal responsibility for communities.

Sustainability, corporate social responsibility, bridging leadership, and consciousness of development management issues are inherent in AIM’s degree programs and research centers.
PRME has been at the center of AIM’s SDG strategy

Over the years, we have consciously strategized and invested in all the six core principles of PRME and achieved tremendous progress.
AIM has focused on 3BL goals, and has encouraged students and alumni to anchor on such goals.


The Malaysian government recently recognized AIM for sustaining balanced management education with Asian ethical values, and for developing socially-responsible leaders.

We will soon launch programs on multi-sector management for sustainable societies, and disaster risk management.

We have a school dedicated to Development Management, Sustainable Development, and allied themes for our programs and research.
We have consciously mainstreamed ethics, social responsibility, and sustainable management.

Key components of responsible management are reflected in our programs’ learning goals.

The Institute offers a range of electives with content related to ethics, enterprise development, responsible management, and environment.

Our MBA program commits to creating ethical leaders and team players. Our MDM program commits graduates to the cause of Development.

We partner with social enterprises that aim to end poverty. Students learn about social innovation and how enterprises create value for society.

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We consistently improve our materials and processes to stay anchored on responsible leadership

Faculty attend programs and conferences in Sustainability, Governance, and Responsible Management Education. These are translated into courseware for MBA or MDM

Our HRS unit partners the National Schools Maintenance Week to encourage shared governance, community education, and utilize local resources for public schools

We design our programs and curriculum so that our students in different degree programs have an opportunity to work across responsible management issues coming from different perspectives

We have espoused campus-wide measures for environmental sustainability, such as environment management system, efficient utilization of energy, and minimization of waste
We conduct cutting edge research on institutions that create sustainable, environmental, and economic value.

Our research spans diverse topics – energy, food production and sustainability, politics and governance, sustainable businesses, CSR, sustainable tourism, and social inclusion.

AIM is home to seven research centers, all endowed with funding from different stakeholders in the Asian business and development community.

Research centers’ common mission is to incubate new programs and research to strengthen business and society.

AIM’s partnerships are built predominantly on themes in sustainable business and development

We have four categories of partners: Program clients, Academic institutions, Academic Associations, Multilateral, Intergovernmental, and International Development Organizations.

Executive and Development programs integrate responsible management ideals in their design and delivery.

Our academic alliances often focus on collaborate research and programs on themes related to sustainable management.

We have very strong linkages with ADB, World Bank, ASEAN, APEC and UN agencies through various projects.
We have facilitated and supported dialogue and debate on social responsibility and sustainability

Our research centers engage multiple stakeholders on topics in sustainability, and disseminate the knowledge to wide audiences in business and society.

In “AIM for Change” event, we gather business chieftains to debate prospects and challenges emerging economies face when new country leaderships emerge.

Through “Development @Work” series, our Development Management School helps tackle challenges in food security, inclusive growth, and in Eurozone and ASEAN integration.

We conduct events or debates on themes like “Corporate Social Innovation” and “Inclusive Innovation for Better Future.”
Data Science – A New Opportunity Area
We are suddenly inundated with data, that has the potential to help us understand the world better.

According to *The Economist* magazine, the world’s most valuable resource is data.

Data are surging through everywhere like the earlier tsunamis of personal computers, the internet, and smartphones.

Finding, extracting, refining, and monetizing data will benefit businesses, consumers, governments, and communities.
Data Science is domain- and sector-agnostic and can support any kind of decision making.

- TELCO
- RETAIL
- GOVERNMENT
- FINTECH
- SMART CITIES
- SUSTAINABILITY
Entering our 50th year, we have placed bets on Data Science as a major growth area

- Data Science Research Laboratory at AIM
- Leads and promotes the use of Data Science, Artificial Intelligence, and Complex Systems
- Helps industries, governments, and other NGOs to innovate and add stakeholder value

AIM is launching a state-of-the art, action-oriented Master of Science program in Data Science

- The program will prepare data analysts and data scientists to solve business, economic, societal, and environmental problems by leveraging data
Leveraging Data Science for Sustainable Development Goals
Data Science has robust potential to assist sustainable development goals

The realization of Sustainable Development Goals will depend on how governments, businesses, agencies, and civil society track progress and make informed decisions. **The key is to use data scientifically**

One of the challenges in the **Development Sector** is timely availability of robust data. Rather than use archaic methods, stakeholders should start using technology to access timely, accurate data.

Data Science has the capability **to model and measure the impact** of varying themes of Sustainable Development – Clean Water, Health, Climate Action, and Sustainable Cities, to name a few.

The AIM Data Scientists have cross-functional experience. It is AIM ACcESs Lab’s vision help solve decision problems through cutting-edge methods. Development and Sustainability are high on our agenda.
Case Example 1: Data Science allows modeling of urban mobility to guide multiple stakeholders

1. **Analyse** commuter travel patterns
2. **Simulate** buses, trains and commuters
3. **Validate** model
4. **Evaluate** scenarios

Multi-touch visualization and simulation of Singapore’s public transport system

This will help government planners, regulators, private concessionaires, and commuters for efficient, adaptive, and sustainable transport system.
Case Example 2: Data Science allows water level prediction in dams to prevent loss of life due to floods even as assuring sufficient water supply during dry seasons

In this case, an accurate model of Angat water levels (3.6 ± 3.3 meters) was generated 6 months ahead (~6.2 ± 6.0 meters for 12 months), to help Manila Water deal with two kinds of emergencies – flash floods on the one hand, and water scarcity on the other.

Angat dam supplies potable water and energy to Metro Manila and nearby areas.
THANK YOU

SALAMAT
Tagalog / Filipino

شاكرا
Arabic

धन्यवाद
Hindi

ประเทศไทย
Thai

TERIMA KASIH
Malay / Indonesian

고맙습니다
Korean

ありがとう
Japanese

谢谢
Chinese

Lao