



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

RESEARCH UNIVERSITY

CONSTRUCTION TECHNOLOGY & MANAGEMENT CENTRE (CTMC)

By

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Director

Construction Technology & Management Centre (CTMC)

Faculty of Civil Engineering

Universiti Teknologi Malaysia

BRIEF INFO OF UTM'S RESEARCH VISION

Universiti Teknologi Malaysia is among the top universities in Malaysia which is active in research especially in science and engineering areas. We have some 2,000 researchers, including postgraduates, and an annual research income of about RM80 million. The variety of research activities extends across all faculties and departments, often crossing traditional subject boundaries. Interdisciplinary research is promoted through our faculties, research centres and institutes. The University's research spans over eleven Research Alliances which form the core of our research strengths.

ORGANISATION STRUCTURE

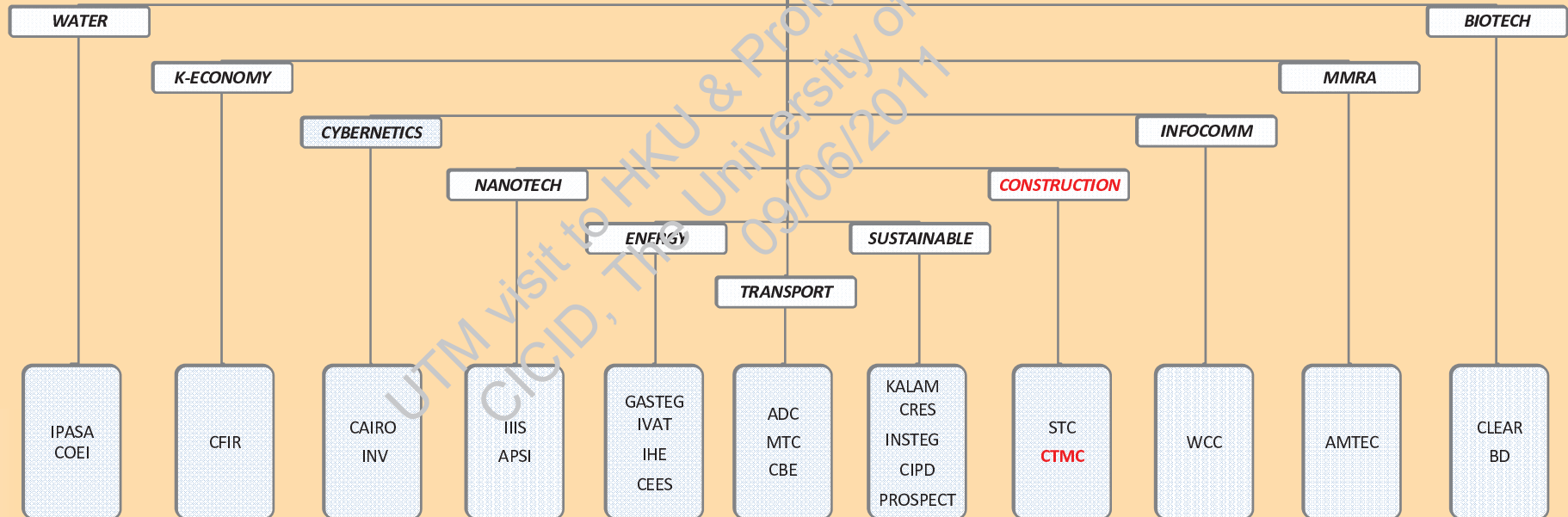


**PROF. DATO' IR. DR. ZAINI
BIN UJANG**
VICE CHANCELLOR



**PROF. DR. MARZUKI BIN
KHALID**
DEPUTY VICE CHANCELLOR
(RESEARCH & INNOVATION)

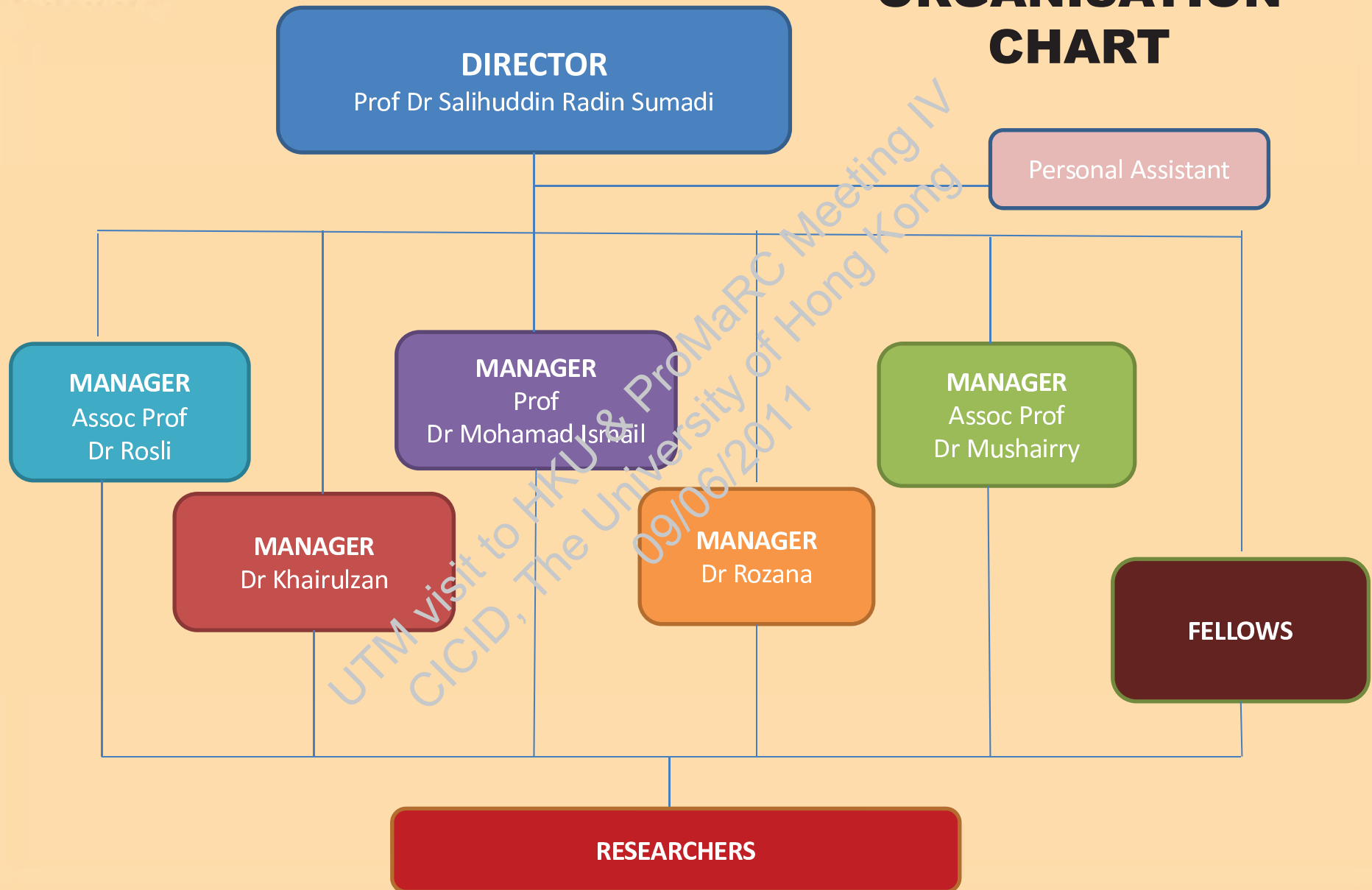
RESEARCH ALLIANCE



INTRODUCTION OF CTMC

Established in 1999, CTMC is one of the UTM's Excellent Centre that functions to stimulate and facilitate collaboration and information exchange between universities, government research institutes and organizations engaged in the building and construction sectors. The vision of CTMC is to be a national as well as global leader in the fields of construction research development, consultancy and education to provide benefits for the construction industry and the built environment.

ORGANISATION CHART



Main Activities of CTMC

- Research
- Post Graduate Programme
- Publications
- Consultancy



ONGOING RESEARCH PROJECTS

Development of Quantitative Buildability Index In Building Design

Project Leader : Rosli Mohamad Zin

Effectiveness Of Rumble Strips Installation On Roadway

Project Leader : Zaiton Binti Haron

Managing And Minimising Demolition Waste In Malaysia

Project Leader : Arham Bin Abdullah

ONGOING RESEARCH PROJECTS

Rehabilitation Attributes Of Road Infrastructure Subjected To Seismic Risk

Project Leader: Rosli B. Mohamad Zin

Assessment of Potential Alkali Aggregate Reaction (AAR) of Granite Aggregate in Johor

Project Leader: Mohammad Ismail

Database On Rock Properties For Preliminary Assessment Of Site

Project Leader: Mohd For Bin Mohd Amin

ONGOING RESEARCH PROJECTS

Engineering Properties And Durability Performance Of Geopolymer Mortar And Concrete Using Blended Ash From Agro-Industrial Waste

Project Leader: Mohd Warid Bin Hussin

Determining Relationship Between Health Care Setting Layout And Mycobacterium Tuberculosis Transmission For Hospital Indoor Environment Sustainability

Project Leader: Rozana Binti Zakaria

ONGOING RESEARCH PROJECTS

The Use Of Bottom Ash In Soft Clay Improvement For Construction Works

Project Leader: Ahmad Mahir Bin Makhtar

Investigation On Strength And Durability Of High-Volume Palm Oil Fuel Ash Concrete

Project Leader: A.S.M. Abdul Awal

Evaluation Of Waste Latex Polymer As Additive In Concrete

Project Leader: Mohammad Bin Ismail

ONGOING RESEARCH PROJECTS

- **SUBGRADE IMPROVEMENT BY USING LIQUID CHEMICAL SOIL STABILIZER (LCSS)**

Project Leader: Prof. Dr Salihuddin Radin Sumadi

- **APPLICATION OF POLYPROPYLENE FIBRE IN RIGID PAVEMENT**

Project Leader: Prof. Dr Salihuddin Radin Sumadi

- **APPLICATION OF STEEL FIBRE IN RIGID PAVEMENT**

Project Leader: Prof. Dr Salihuddin Radin Sumadi

ONGOING RESEARCH PROJECTS

Engineering Properties Of Hot Mix Recycling Asphalt Mixtures

Researcher: Mohd Rosli Bin Hainin

Sub-Metre Digital Terrain Models And Their Impacts In The Analysis Of Ponding And Surface Water Run-Off In Flat Areas

Project Leader: Mushairry Bin Mustaffar

Total ongoing research : RM968,000

RESEARCH PRODUCT

Fast Track Wall System (FTW)

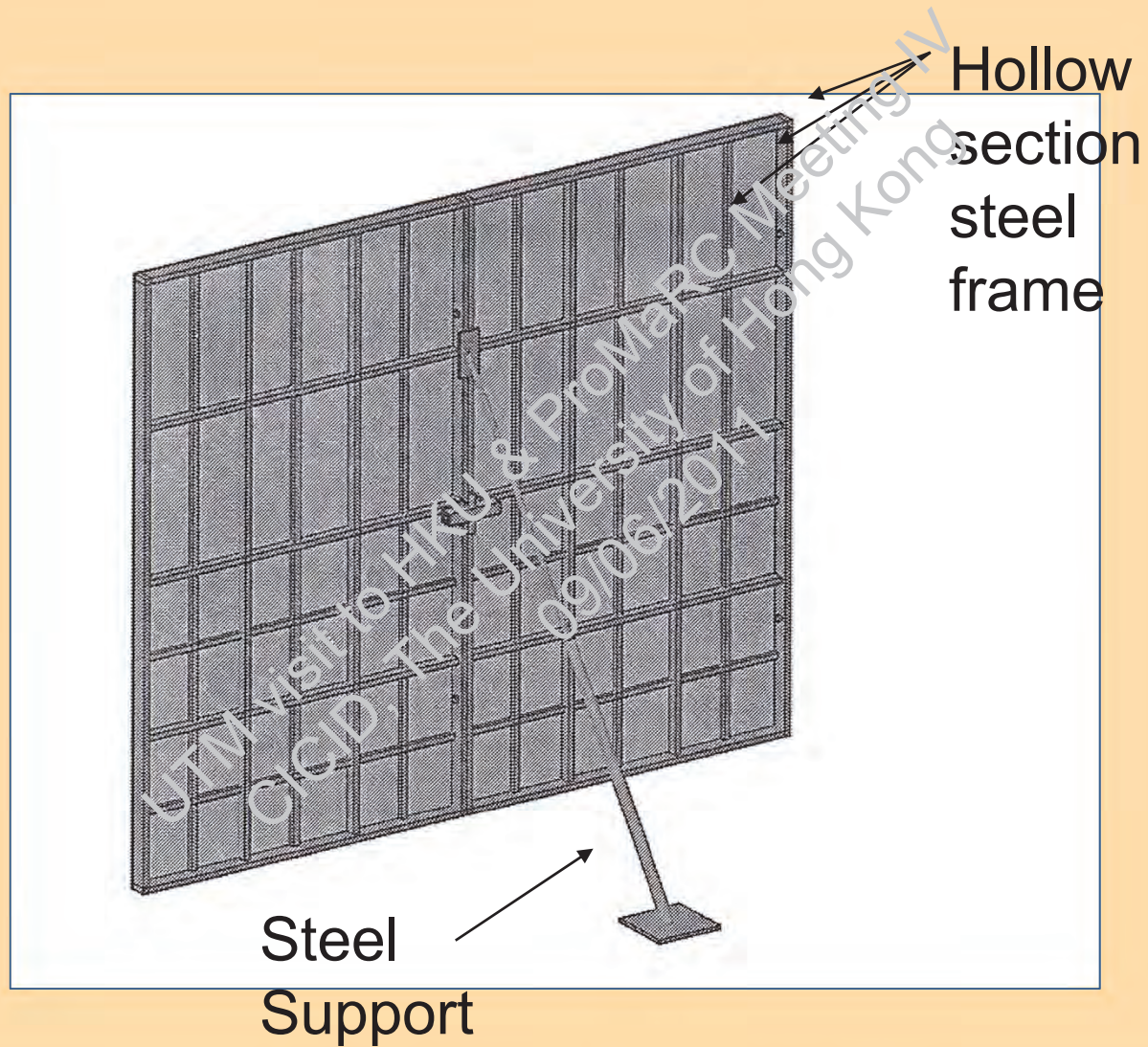
- **FTW System:**

developed using materials that will help to reduce the wastages in the construction industry by minimizing the conventional usage of timber

- **Novel feature:**

the material usage using plastic and steel frame

MOULD DESIGN



FTW WALL CONSTRUCTION



PROJECTS COMPLETED



POST GRADUATES PROGRAMME

Engineering
Doctorate
Programme

Masters in
Construction
Management

Masters in
Project
Management



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