

# BUILDING CLIMATE RESILIENT INFRASTRUCTURE

AN EXCITING EVENT..

**MARK ALLAN** (CITY of MELBOURNE): WELCOME to OUR PANEL DISCUSSION. HERE AT MELBOURNE CONNECT.

**JOAN HO** (ARUP): GREEN INFRASTRUCTURE HOW WE PREPARE FOR HEAT WITH TREES + GREEN SPACES.

**DR BEHZAD RISMANCHI** (UoM): EVERYONE IN the BUILT ENVIRONMENT CAN HELP. A MULTI-LAYERED APPROACH. RETHINK. QUANTIFIABLE. DEFINING 'RESILIENCE'.

**JOYCE FERNG** (AECOM): PREFABRICATION IS ONE ANSWER. REUSE. RECYCLE. LOOK and MAKE a CHANGE.

**DR KEITH BELL** (INTERNATIONAL DEVELOPMENT CONSULTANT): FIT-FOR-PURPOSE IS GOOD-ENOUGH-TO-DO-THE-JOB... WHICH IS DIFFERENT IN EACH COUNTRY! CONSIDER the LOCAL CONTEXT. RESILIENCE IS the NEW SUSTAINABLE.

**OVER COMING BARRIERS by COLLABORATION**

ORGANISATIONAL INFRASTRUCTURE... NOT the BUSINESS CASE

IT'S ABOUT TIMING - WHAT TO DO WHEN?

THINK OUTSIDE the BOX

POLITICS

COST IS A FACTOR IN DEVELOPING COUNTRIES

USING the DATA to PREDICT!

RETHINK DESIGNS DESIGN WASTE OUT FROM THE BEGINNING

SATISFACTION NOW and IN THE FUTURE

How to KEEP 'WHAT WE'VE GOT' RATHER THAN BUILD NEW...

REUSING COMPONENTS

BIO-ENGINEERING

MAKE a CONSCIOUS EFFORT to CHANGE

CONSIDER YOUR LEGACY...

CONNECTED ORGANISATIONS HAVE RESILIENCE

DIGITAL TWINS: A REPLICA of WHAT IS ACTUALLY THERE

WE HAVE GOOD ACCESS these DAYS...

SHARING and UNDERSTANDING WHIS IS THERE

HAZARD DATA

SCENARIO DATA

DATA IS NOT CONSISTENT...

BUILD IN A BETTER LIFE CYCLE IN NEW INFRASTRUCTURE

**BARRIERS to SUSTAINABLE INFRASTRUCTURE**

**ACCESS to DIGITAL DATA**

**CIRCULAR ECONOMY**

**CHALLENGING WEATHER EVENTS**

**UP FRONT**

COOLING

DRINKING

TRANSPORT

WATER IS LIFE DRINKING RECYCLED WATER

COLLABORATE BETWEEN GOVERNMENT + INDUSTRY

DATA IS SCATTERED

SECTORS NEED to SHARE DATA

REGENERATIVE SYSTEMS

CONSTRUCTION to be EASY and MODULAR and HAVE COMMUNITY INVOLVEMENT

KEEP POLITICIANS ON SIDE and INFORMED

SDG'S ARE EVOLVING

POST COVID WE ARE HAPPIER to TRAVEL LESS

CAN WE BUILD IN ALTERNATIVE USES FOR OUR INFRASTRUCTURE

TIMING of DESIGN to be CONSIDERED

DON'T LET PERFECT GET IN THE WAY of GOOD ENOUGH!

**WE MUST ALL PROMOTE SUSTAINABILITY COLLECTIVELY AS ENGINEERS**

SHARING VIEWS IS IMPORTANT

SUSTAINABILITY and RESILIENCE as BAU... 'EDUCATION' IS HOW WE WILL ACHIEVE THIS!

OUR CHALLENGE IS BIG and SUSTAINABLE and How WE Do BOTH!

REMOTE WORKING OPENS UP RISKS IN DEVELOPING COUNTRIES

the VALUE CHAIN!

CO-ORDINATE HOW WE BUILD COMMUNITIES

RECYCLING PV CELLS... DOWN to COMMERCIALISATION!

ADAPTIVE STREETS USED BY MORE THAN CARS.

LESS OWNERSHIP OF CARS

PURPOSE OF TRANSPORT

SUSTAINABLE TRANSPORT

TECH WILL CREATE a RURAL REVIVAL

ENGINEERS AUSTRALIA

THE UNIVERSITY OF MELBOURNE