

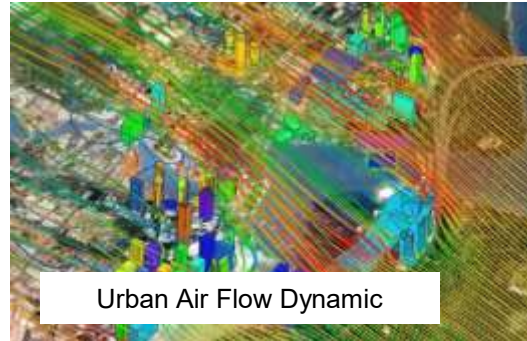
Role of Singaporean Surveyors in the Digital World



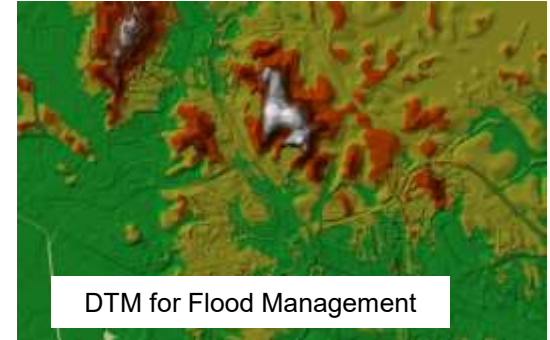
What is Surveyor's Role in these Areas?



Development Planning



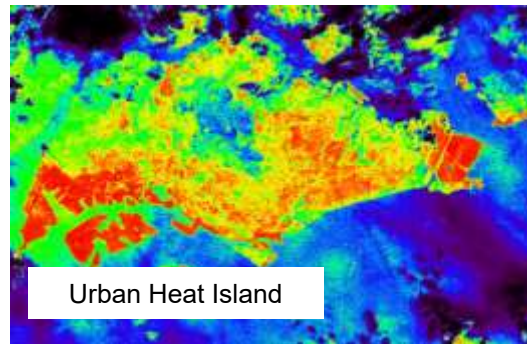
Urban Air Flow Dynamic



DTM for Flood Management



Underground Development



Urban Heat Island



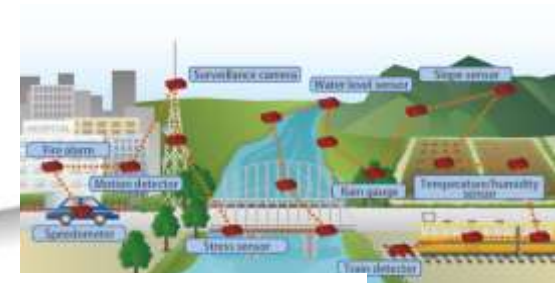
Smart Construction
Source: Geospatial World



Smart Mobility



NTU Proposed concept for
UAV air traffic management



Sensors Network

Do we need Transformation?

Disruption
Ahead

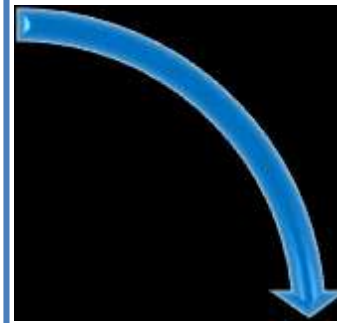
- National vision – smart nation, sustainable development and resilient city
- Emerging Innovation and Disruption - disruptive technology, artificial intelligent (AI), mobile devices, cloud technology, internet of things (IoT), big data analytics
- Challenges - ageing profile, climate change



Digital Transformation

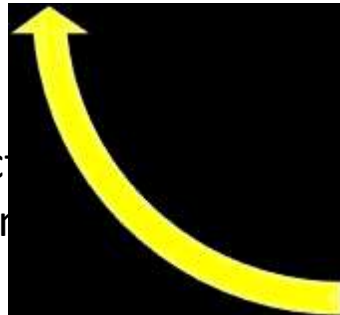
Geomatics Framework

- Establish and maintain survey reference system
- Define accuracy
- Deploy capturing technology



- Produce fundamental datasets
- Develop data models
- Develop and deploy modelling techniques and workflow

- Deliver specific products
- Participate in solutioning
- Provide data services
- Create new thematic datasets



- Manage and maintain GIS and Database
- Detect changes and manage updating



Modelling of the Real World



- Better maps and datasets
- Faster in capturing, processing, modelling and presentation
- Cheaper in everything
- More maps in digital format

