

Collecting Reality & Digital Engineering

Brian Nicholls, Executive Director, AAM



- Tools for collecting reality
- Examples of Reality Capture
- Applications

WHY CAPTURE REALITY?



At AAM, it is what we do!

“...geospatial data are the building blocks of a Smart City”

- Vincent Hoong, CEO of Singapore Land Authority, 2009 – 2015

“Geospatial data and technology will allow us to maximise our use of limited land resources”

- Tan Boon Khai, CEO of Singapore Land Authority

"Smart cities are places where information technology is wielded to address problems old and new...

... combined with infrastructure, architecture, everyday objects, and even our bodies to address social, economic, and environmental problems."

"...geospatial data are the building blocks of a Smart City"



HOW DO WE CAPTURE REALITY?





MODEL ENHANCEMENT

- Enhancement at ground level





PUTTING IT TOGETHER - A DIGITAL TWIN



PEOPLE ARE STILL THE KEY



Geo-enabling_Smart_City

REALITY MESH – THE NEW (3D) ORTHOPHOTO ?



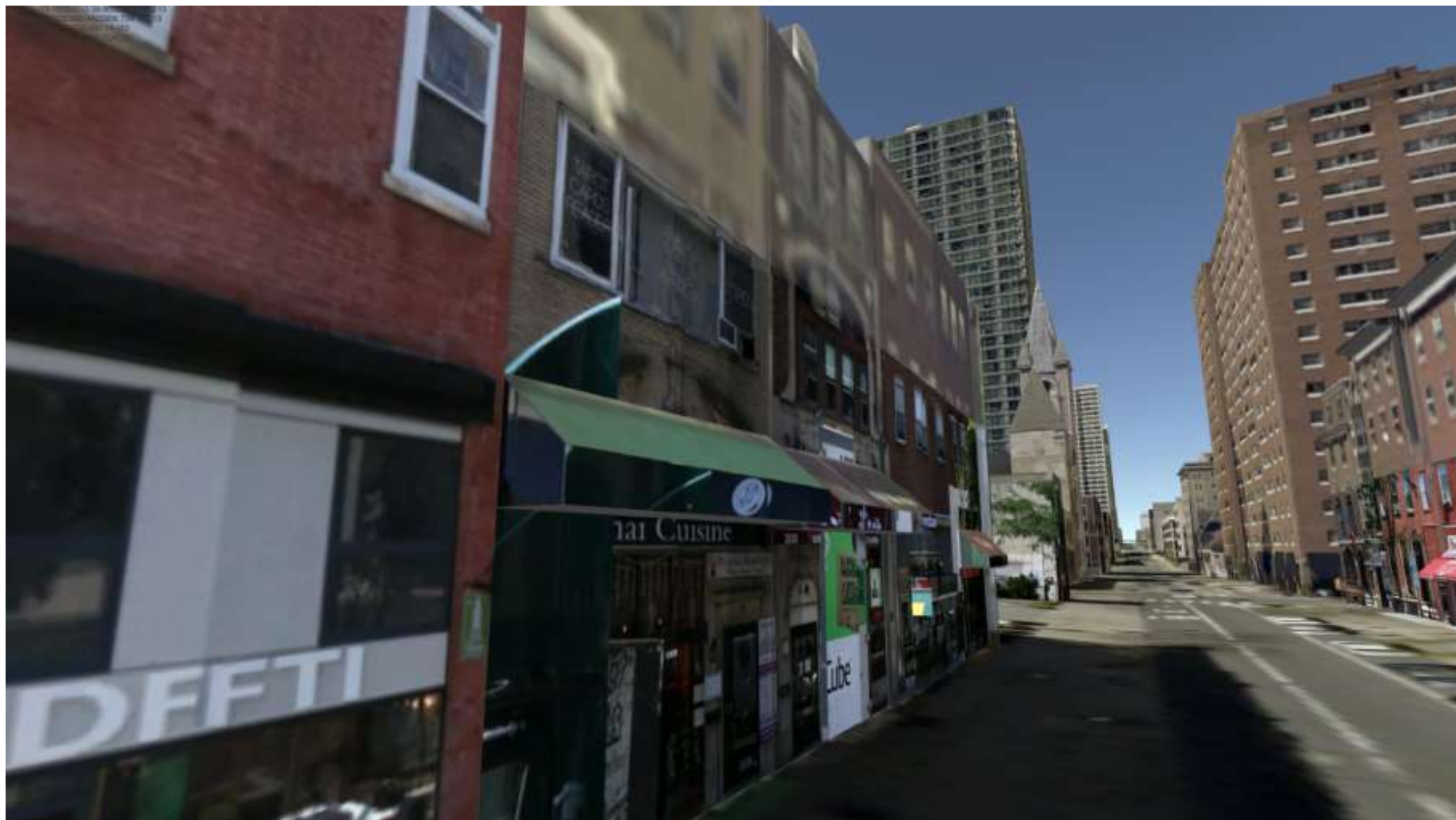
COPENHAGEN 3D – REALITY MESH



- Philadelphia Street Level



- Philadelphia Street Level



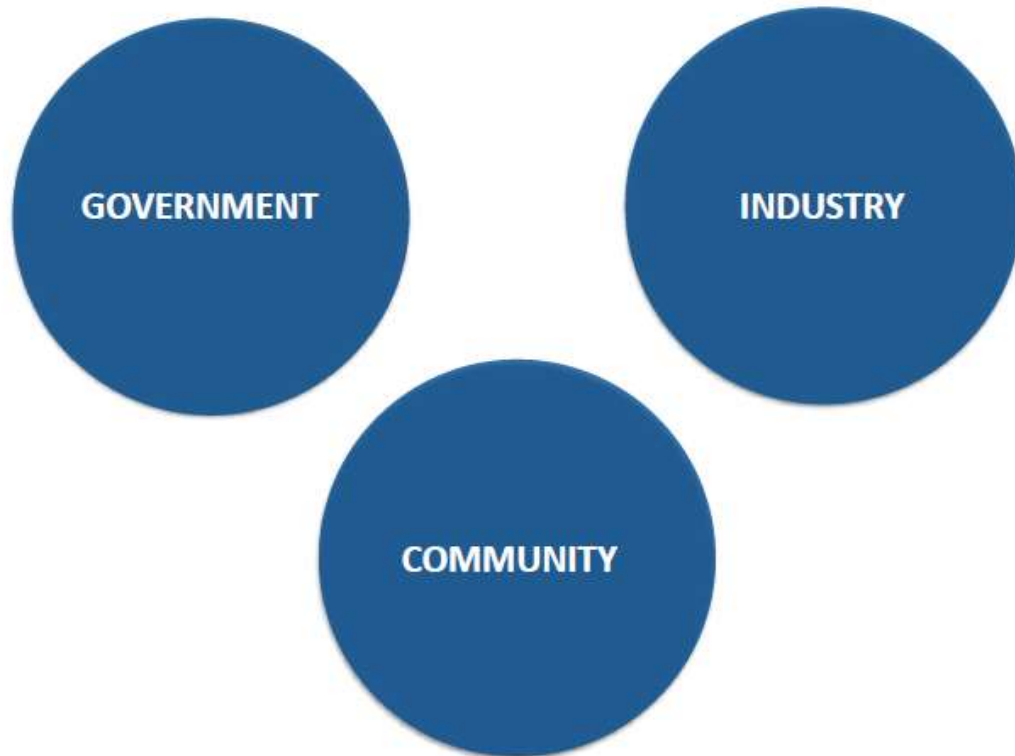




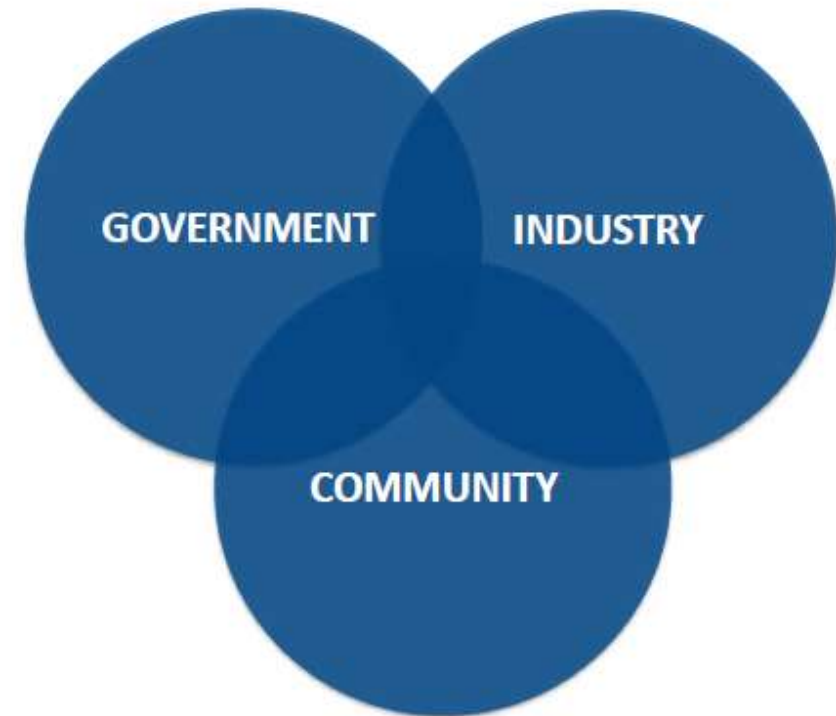


Community Engaged Urban Planning

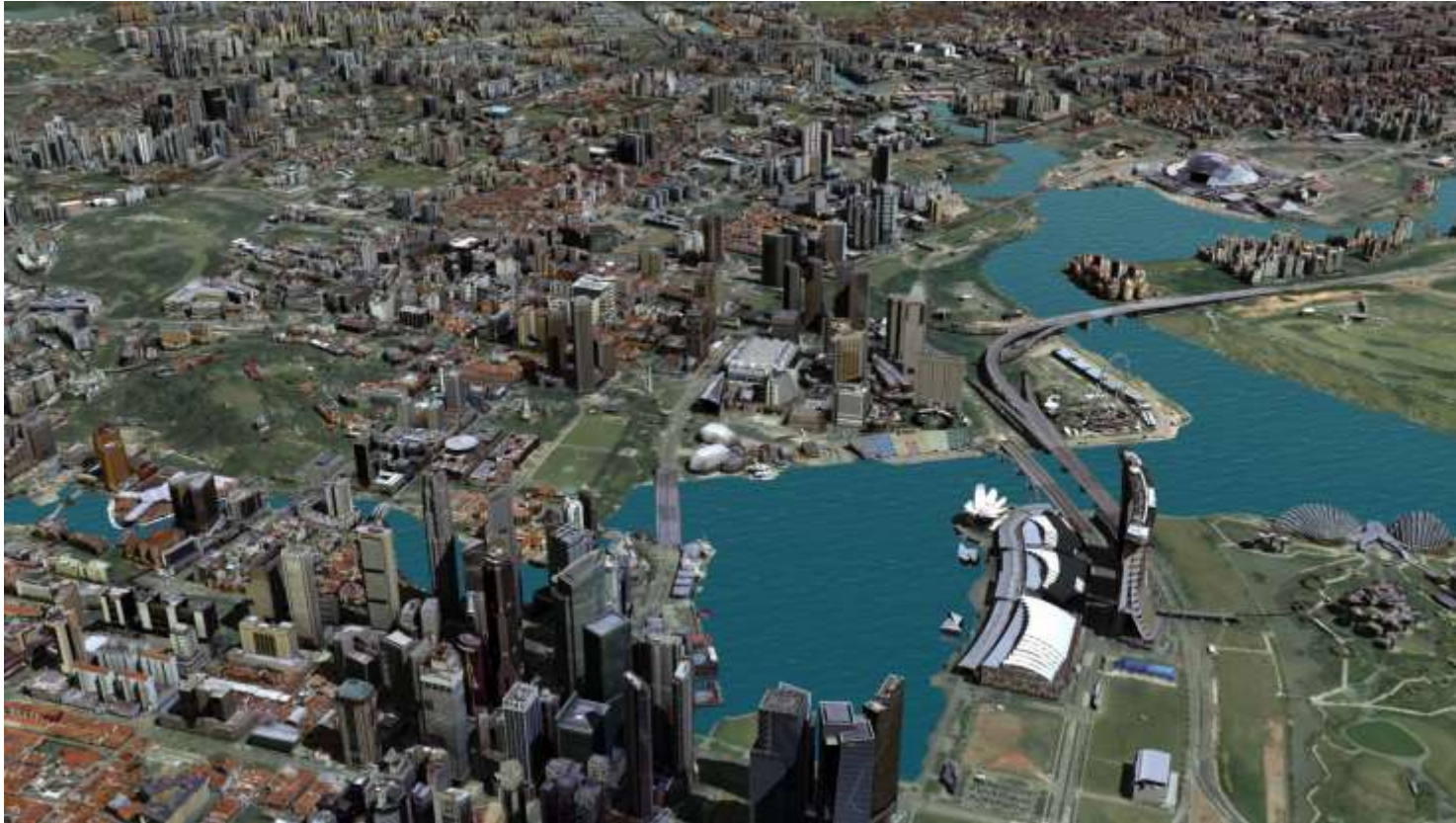
Traditional Approach



Smart City Approach







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