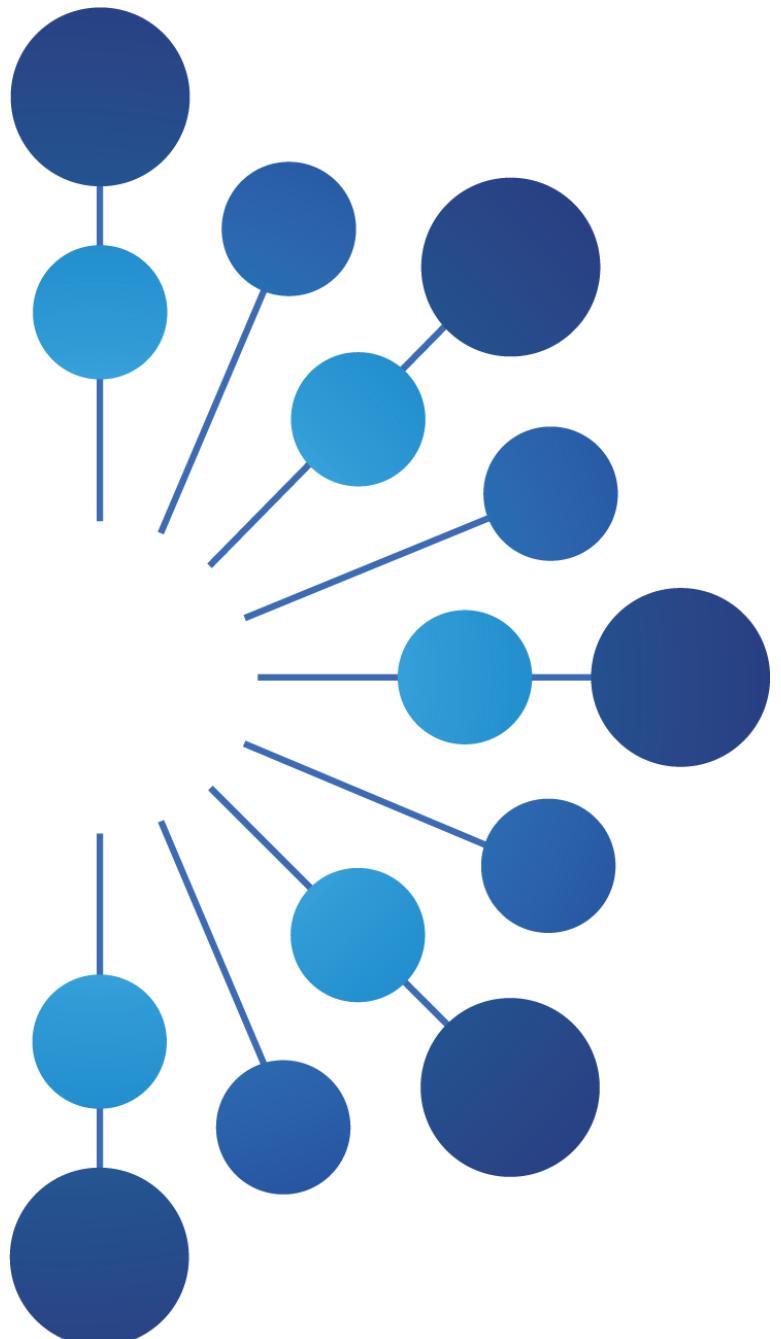
A decorative graphic in the top-left corner consists of several blue circles of varying sizes connected by thin blue lines, forming an abstract network or mesh pattern.

IoT Alliance Australia Inaugural State of the Nation Workshop

6 September 2016





Welcome & Introduction



Chris McLaren
KPMG

3.00pm	Welcome & Introduction	Chris McLaren - Partner, KPMG
3.10pm	Government Perspectives	Senator the Hon. Mitch Fifield Minister for the Arts Minister for Communications
3.25pm	Barangaroo Community IoT Gateway Switch-On	Senator the Hon. Mitch Fifield Minister for the Arts Minister for Communications
3.30pm	State of the Nation: How Australia is performing vs Global-Leading Nations	Hugh Ujhazy - IDC Frank Zeichner - CreatorTech
3.50pm	IoTAA Industry Progress: Panel Session of Workstream Chairs	Moderator: John Stanton Chair, IoTAA Executive Council
4.20pm	Consumer Perspectives	Teresa Corbin - CEO, ACCAN
4.30pm	Smart Industries & Cities: Panel of Sectoral representatives	Moderator: Catherine Caruana-McManus Founder, Giant Ideas
5.00pm	Hypercat Update	Justin Anderson - Founder, Hypercat Piers Hogarth-Scott - National IoT Leader, KPMG
5.20pm	Closing Remarks	Dr Mike Briers, AO - UTS
5.30pm	Drinks & Networking	Connect Space, Level 26

IoTAA is the peak Australian Internet of Things (IoT) body

Vision: To empower industry to grow Australia's competitive advantage through IoT

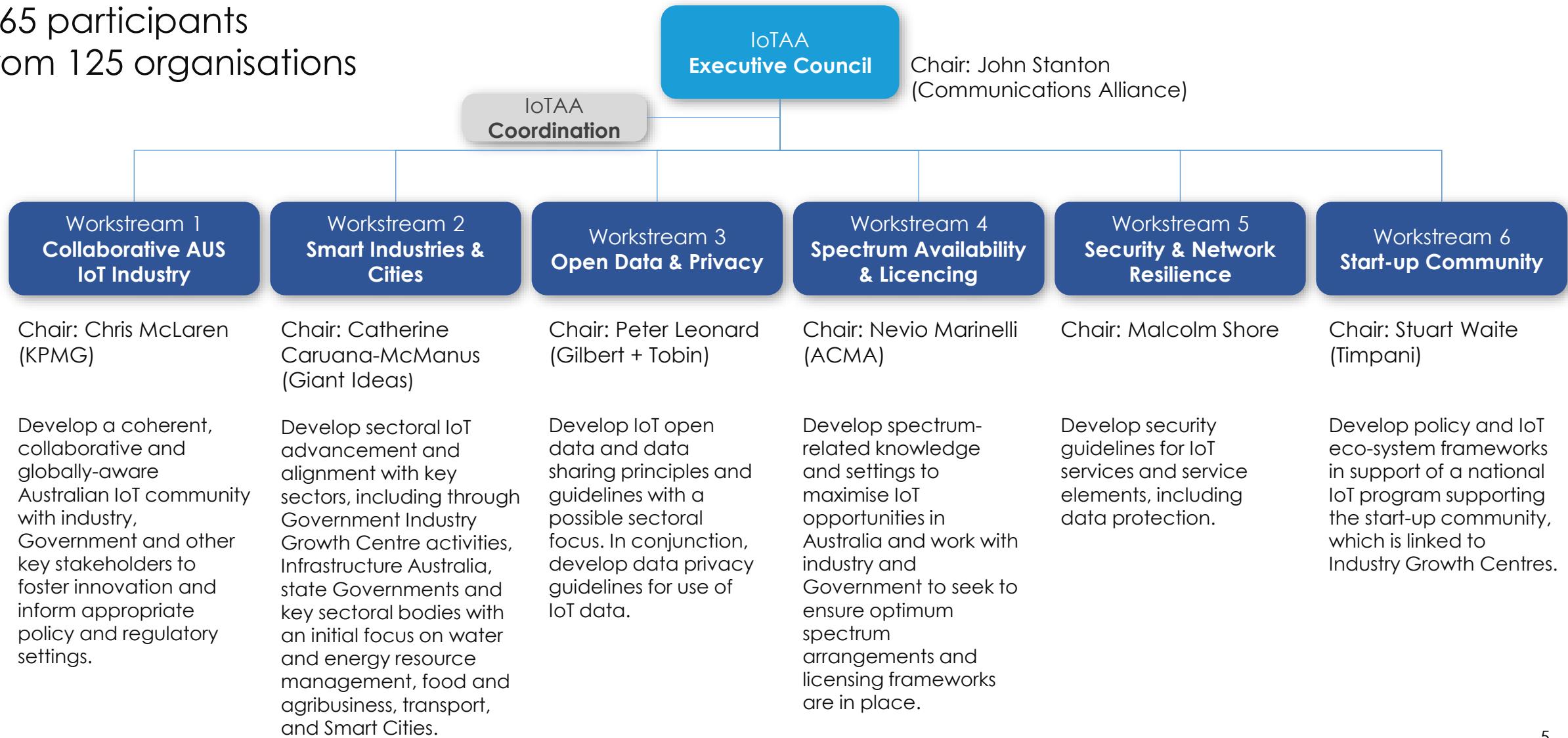
Purpose: To accelerate IoT innovation & adoption in Australia by:

- Activating and supporting collaboration across industry, government, research & communities
- Promoting enabling, evidence-based policy & regulation
- Identifying strategic opportunities for economic growth & social benefit



IoTAA – A Bias For Action

265 participants
from 125 organisations





IoTAA – A Call to Action

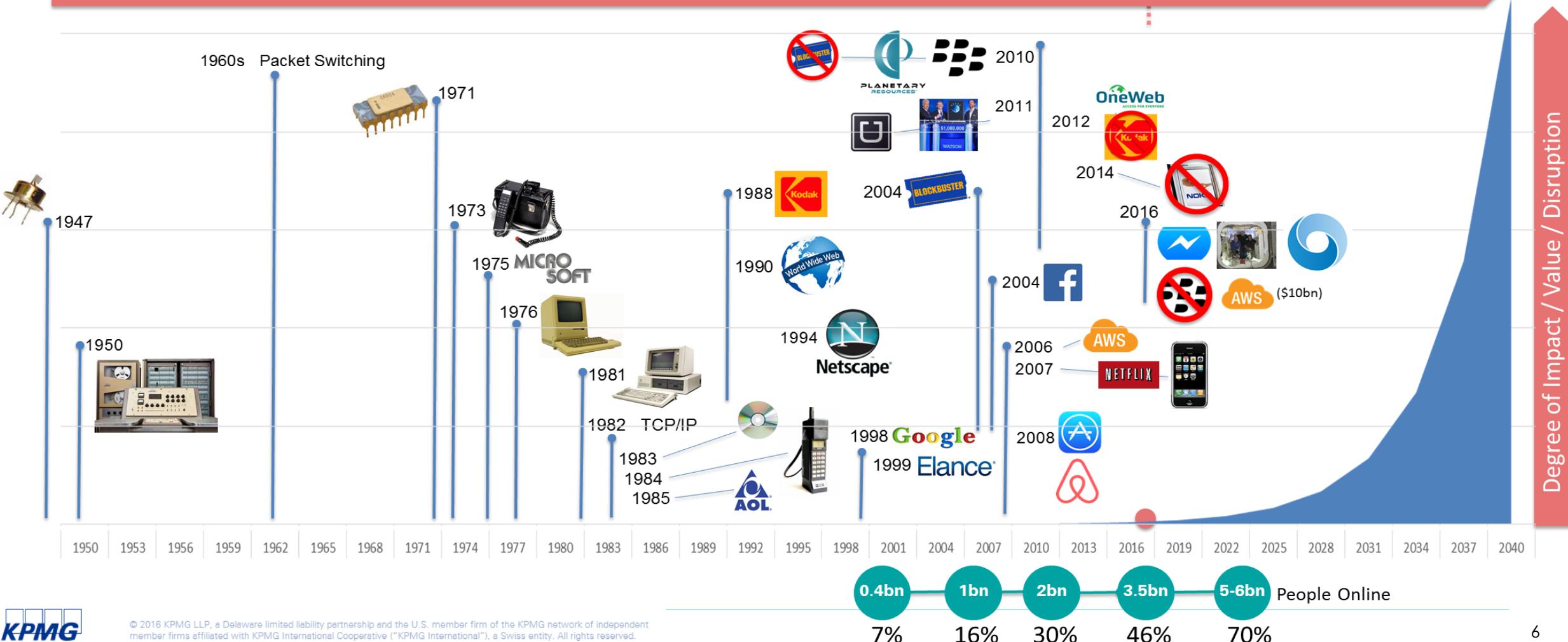
We are here

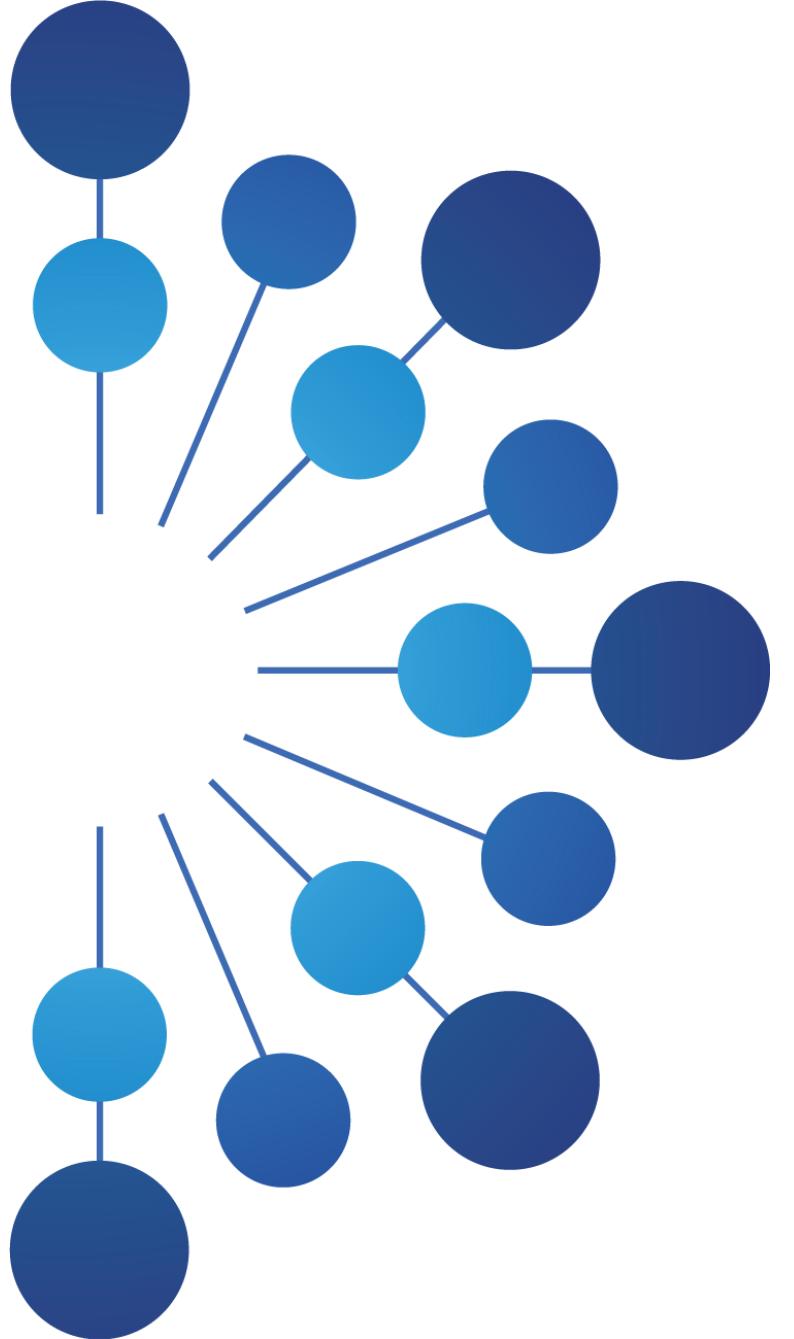
IoT
IoT Alliance Australia

Australia's Unbroken Run

What's next for Australia?

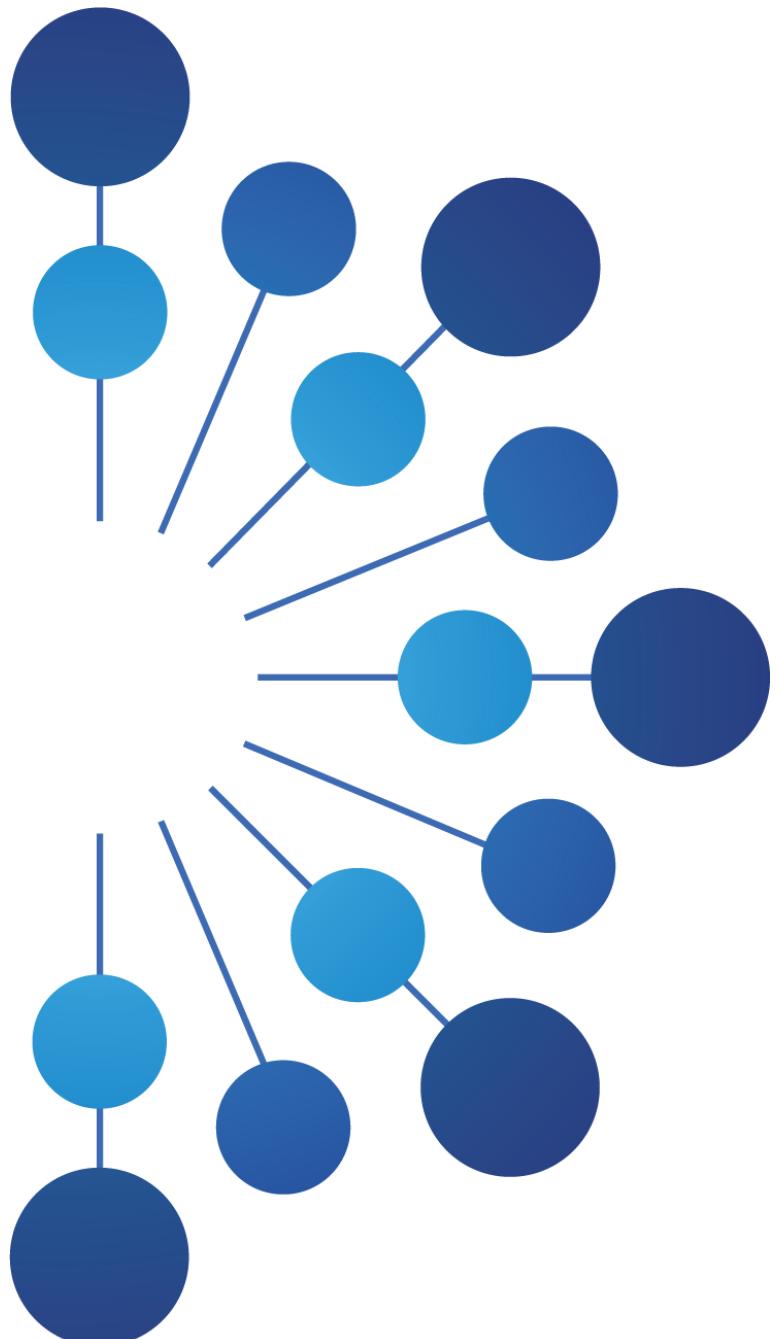
Technology-Driven Doubling





Senator the Hon Mitch Fifield

Minister for the Arts
Minister for Communications



State of the Nation: How Australia is Performing vs Global- Leading Nations



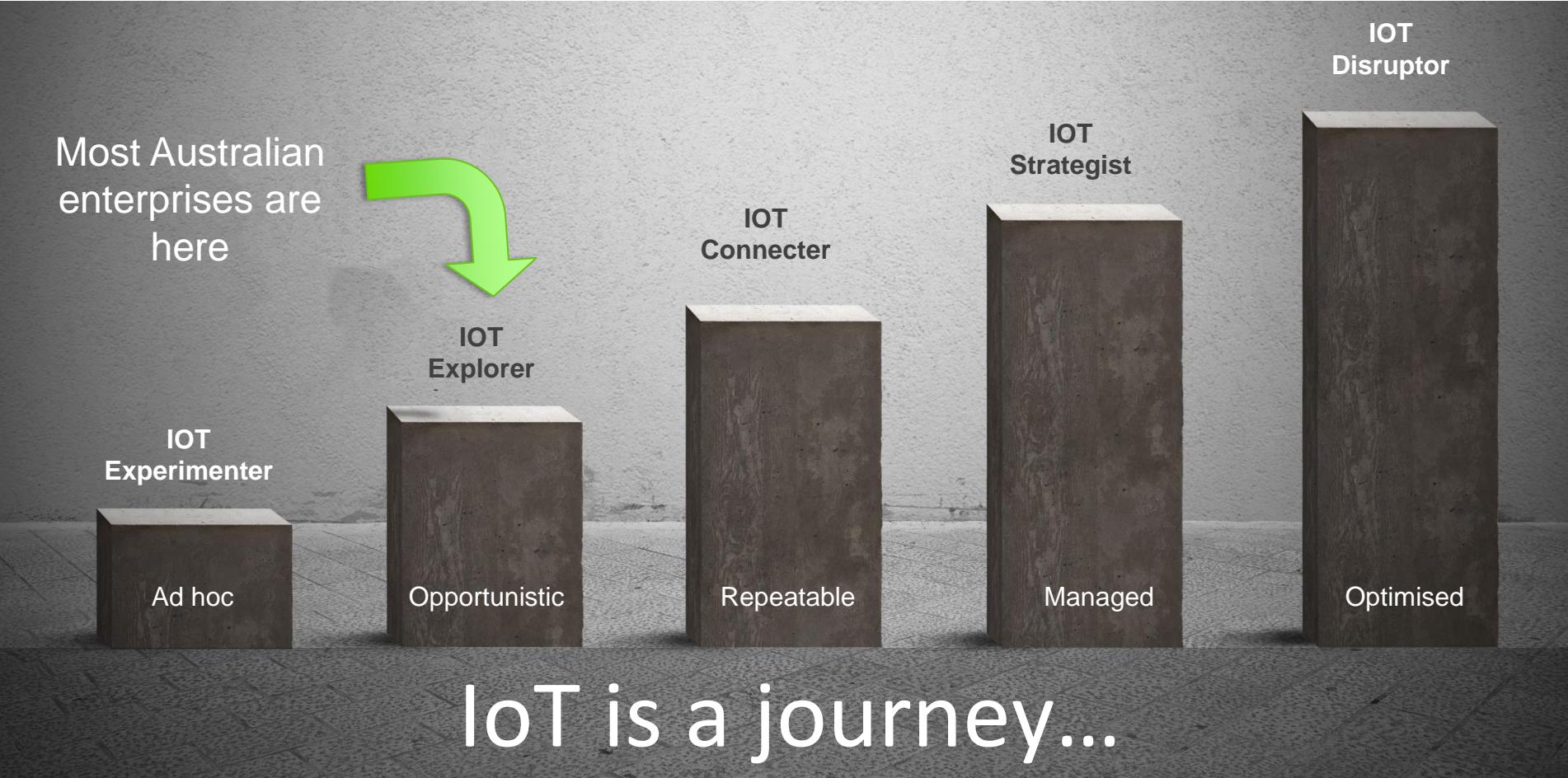
Hugh Ujhazy
IDC



Frank Zeichner
Creator Tech



Australia : The State of IOT



Little or no monetary or business value is achieved

LOB leaders are pressured by customers and competitors to accelerate IOT rollout

Initial outcomes are realised but defining concrete ROI is challenging

IOT solution impact capex and opex, bringing early transformation

IOT functions as major influencer and key driver of digital transformation

Operational Excellence



12% of APeJ enterprises will see IoT as an opportunity for revenue generation in 2016

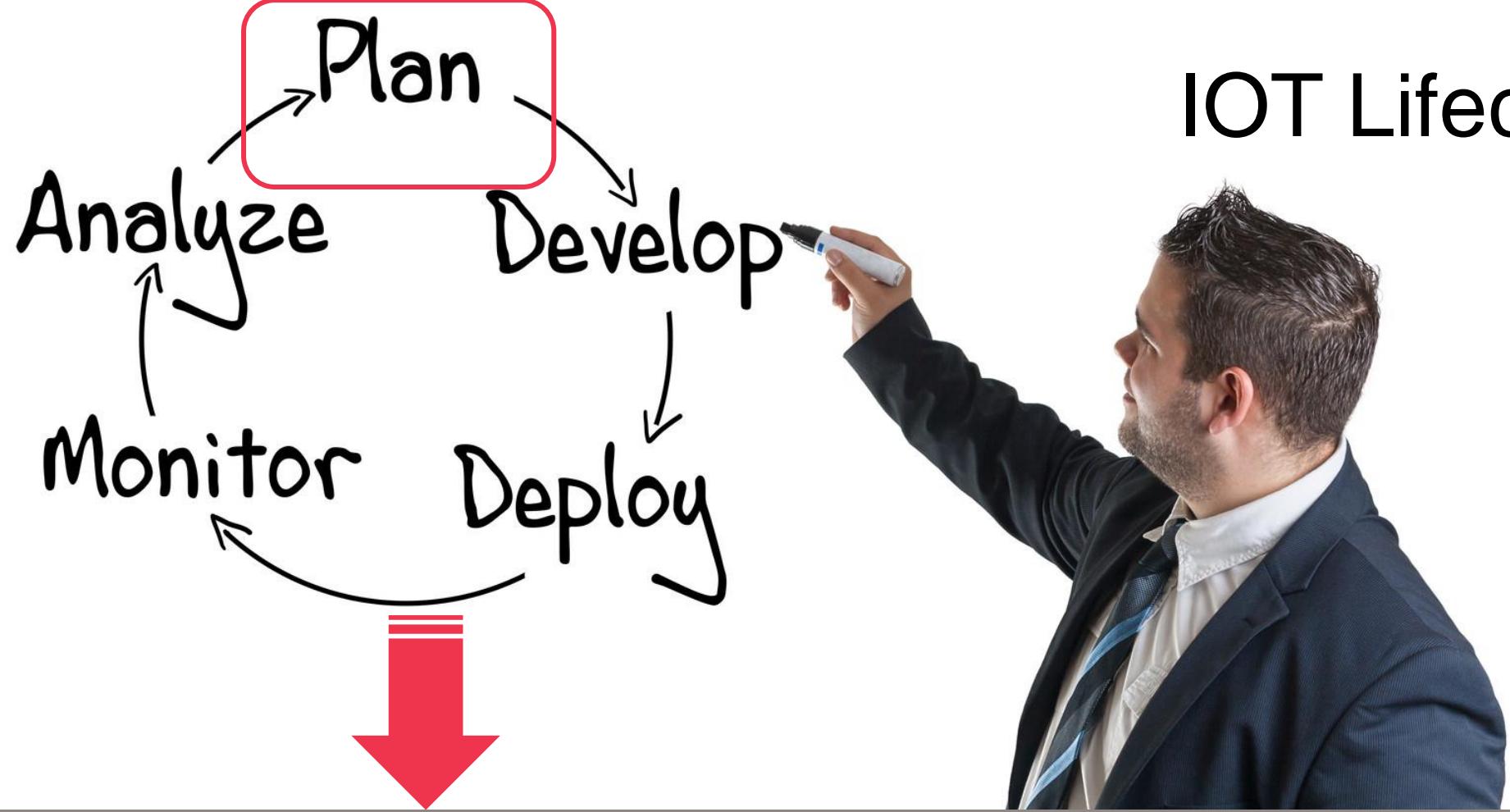
Top 5 APeJ IoT Use Cases

1. Manufacturing Ops
2. Freight Monitoring
3. Production Asset Mgmt
4. Smart Grids
5. Smart Buildings



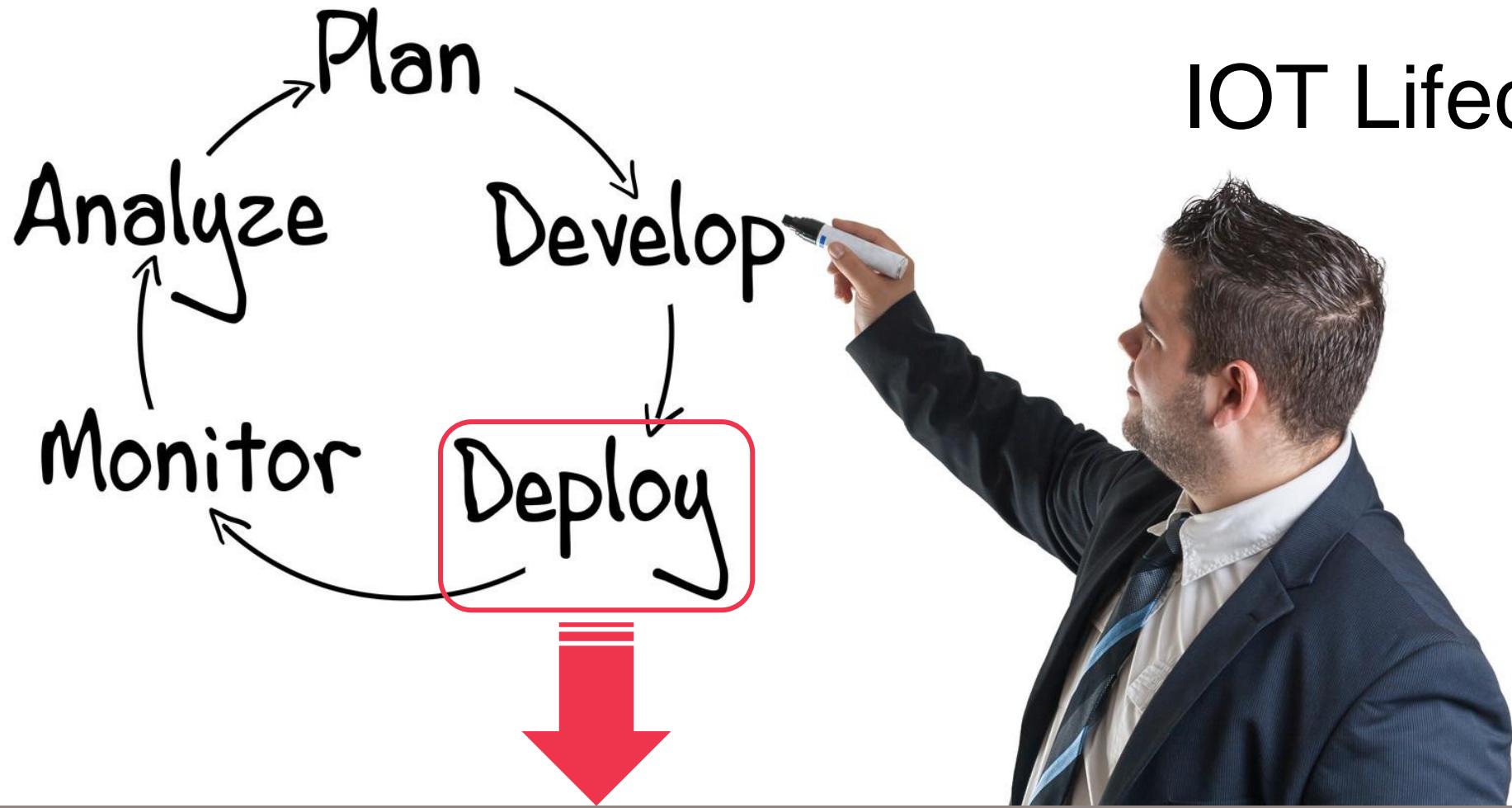
Source: IDC WW IoT Survey, Sep 2015: AP=840; IDC Internet of Things Spending Guide, 2016

IOT Lifecycle



32% of respondents in Australia plan to deploy security solutions, followed by 28% considering payment solutions.

IOT Lifecycle



64% of respondents in Australia have deployed IOT solutions,
with 25% planning to extend existing solutions.

IOT Lifecycle



54% nominated internal IT as major IOT decision maker with further 30% nominating internal line of business.

IoT Spending Guide

Use Cases & Industry Splits

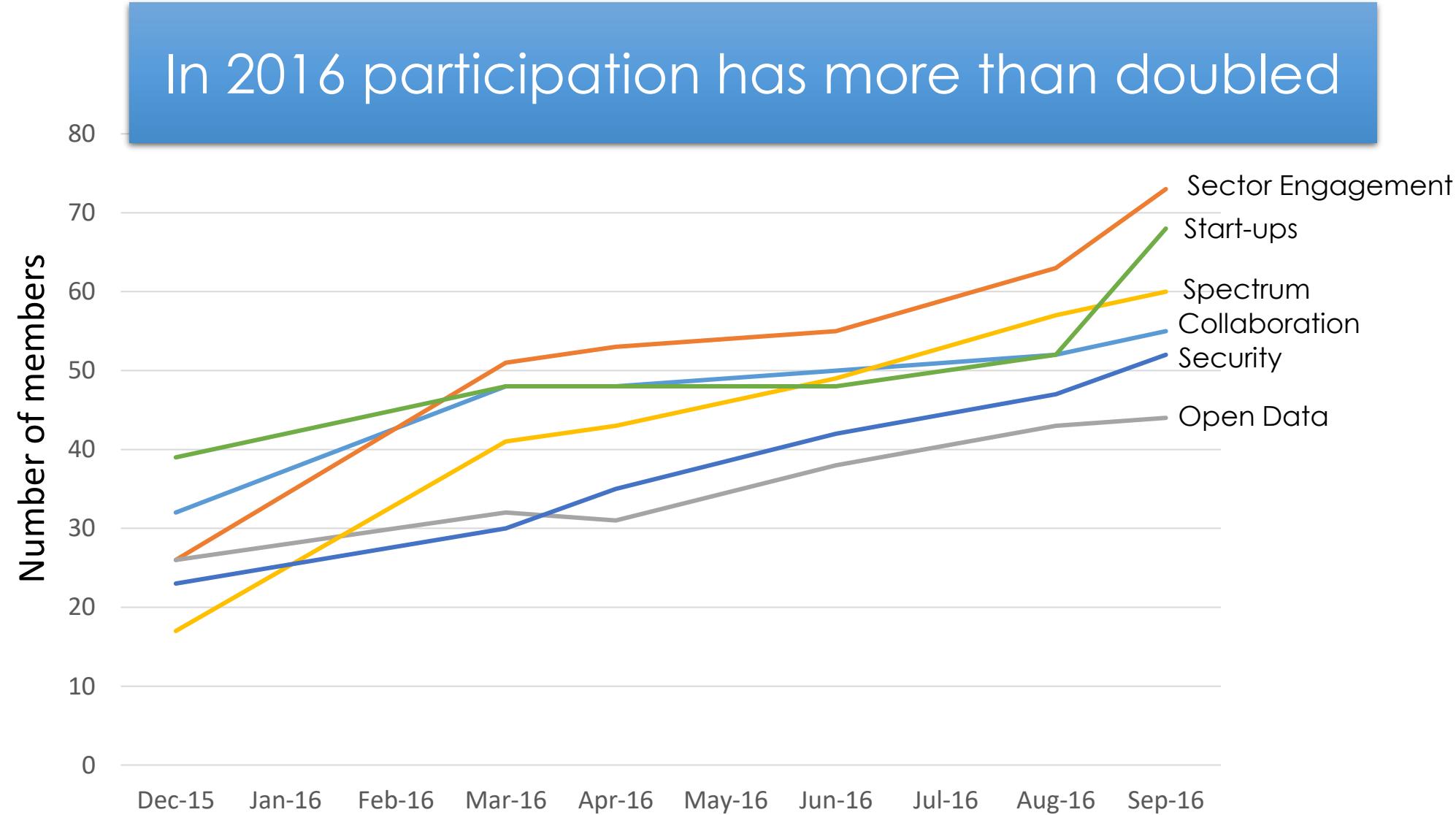
Banking <ul style="list-style-type: none">▪ ATM Remote Tracking▪ Other Banking Use Cases	Government <ul style="list-style-type: none">▪ Intelligent Transport System: Automated Public Transport▪ Intelligent Transport System: Parking Mgmt▪ Intelligent Transport System: Traffic Mgmt including tolling & congestion▪ Intelligent Transport System: Traveler Information Systems▪ Environmental Monitoring Detection▪ Public Infrastructure Asset Management▪ Public Safety & Emergency Response▪ Other Gov't. Use Cases	Healthcare <ul style="list-style-type: none">▪ Telehealth Systems▪ Clinical Care▪ Hospital Asset Tracking▪ Remote Health Monitoring▪ Other Healthcare Use Cases	Resource Industries <ul style="list-style-type: none">▪ Agriculture Animal Tracking▪ Connected Oil Field Exploration▪ Other Resource Industry Use Cases	Transportation <ul style="list-style-type: none">▪ Air Traffic Monitoring: Tower Control▪ Air Traffic Monitoring: Airplane GPS (ADS-B)▪ Freight Monitoring▪ Asset/Fleet Management▪ Other Transportation Use Cases
Construction <ul style="list-style-type: none">▪ Construction Machinery Mgmt▪ Other Construction Use Cases	Consumer <ul style="list-style-type: none">▪ Smart Home: Automation▪ Smart Home: Security▪ Smart Home: Appliances▪ Personal Wellness▪ Other Consumer Use Cases	Insurance <ul style="list-style-type: none">▪ Insurance Telematics▪ Other Insurance Use Cases	Retail <ul style="list-style-type: none">▪ Connected Vending Machines▪ Digital Signage▪ Omni-channel Operations▪ NFC Payment/Shopping▪ In-Store Consumer Digital Offers/ Personalized Promotions▪ Other Retail Use Cases	Utilities <ul style="list-style-type: none">▪ Smart Grid Electricity: Smart Meters▪ Smart Grid Electricity: Distribution Automation▪ Smart Grid Gas: Smart Meters▪ Smart Grid Gas: Distribution Automation▪ Other Utilities Use Cases
Cross Industry <ul style="list-style-type: none">▪ Staff Identification▪ Smart Buildings: Infrastructure▪ Smart Buildings: Lighting▪ Connected Vehicles: Infotainment▪ Connected Vehicles: Security▪ Connected Vehicles: Emergency▪ Connected Vehicles: V2V/V2I Advanced Solutions▪ Cross Industry Use Cases	Manufacturing <ul style="list-style-type: none">▪ Connected Vehicles▪ Food Traceability▪ Maintenance & Field Services▪ Manufacturing Operations▪ Production Asset Mgmt▪ Other Manufacturing Use Cases	Telecom <ul style="list-style-type: none">▪ Telecom Base Station Remote Mgmt▪ Telecom Field Services▪ Other Telecom Use Cases	Other Industries <ul style="list-style-type: none">▪ Other Industries Use Cases	

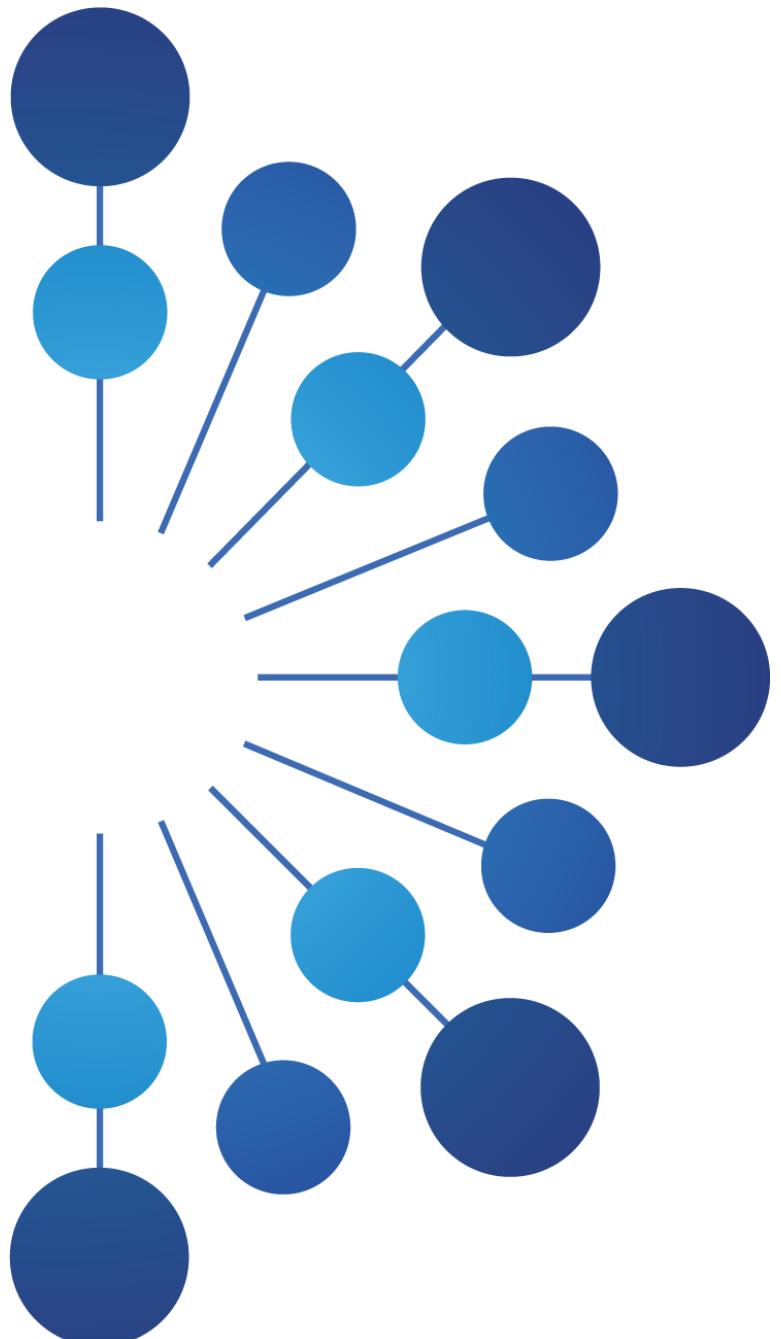
Updated as of May 2016





Work Stream Participation Growth



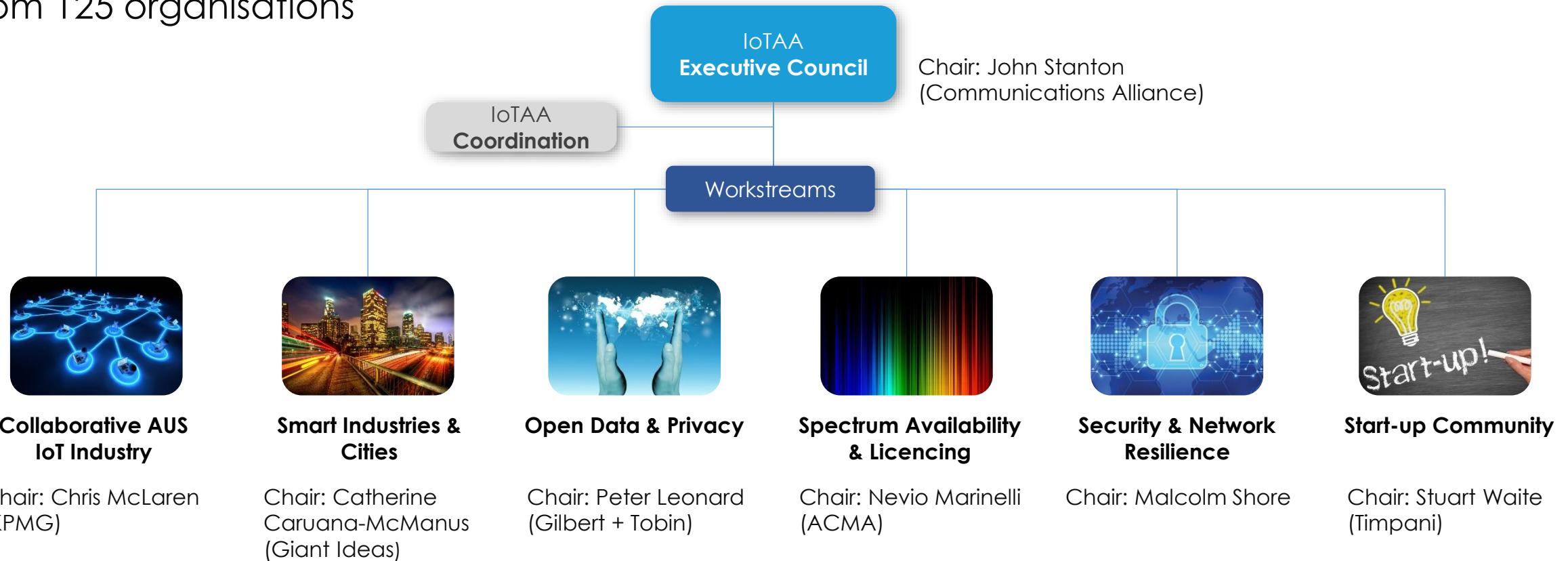


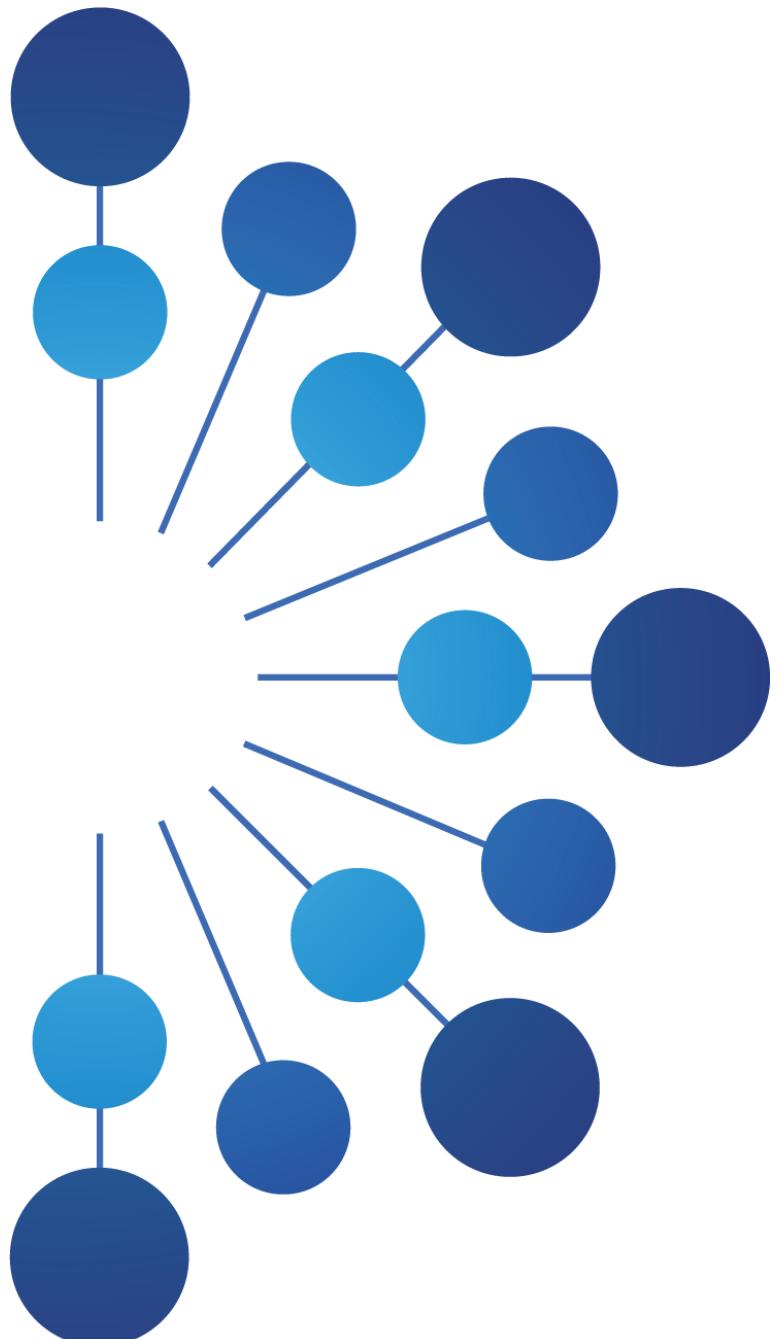
IoTAA Industry Progress: Workstream Chairs Panel Session

Moderated by John Stanton, Communications Alliance

- | | |
|--|--|
|  Chris McLaren
KPMG |  Catherine Caruana-McManus, Giant Ideas |
|  Peter Leonard
Gilbert + Tobin |  Frank Zeichner
Creator Tech |
|  Malcolm Shore |  Stuart Waite
Timpani |

265 participants
from 125 organisations

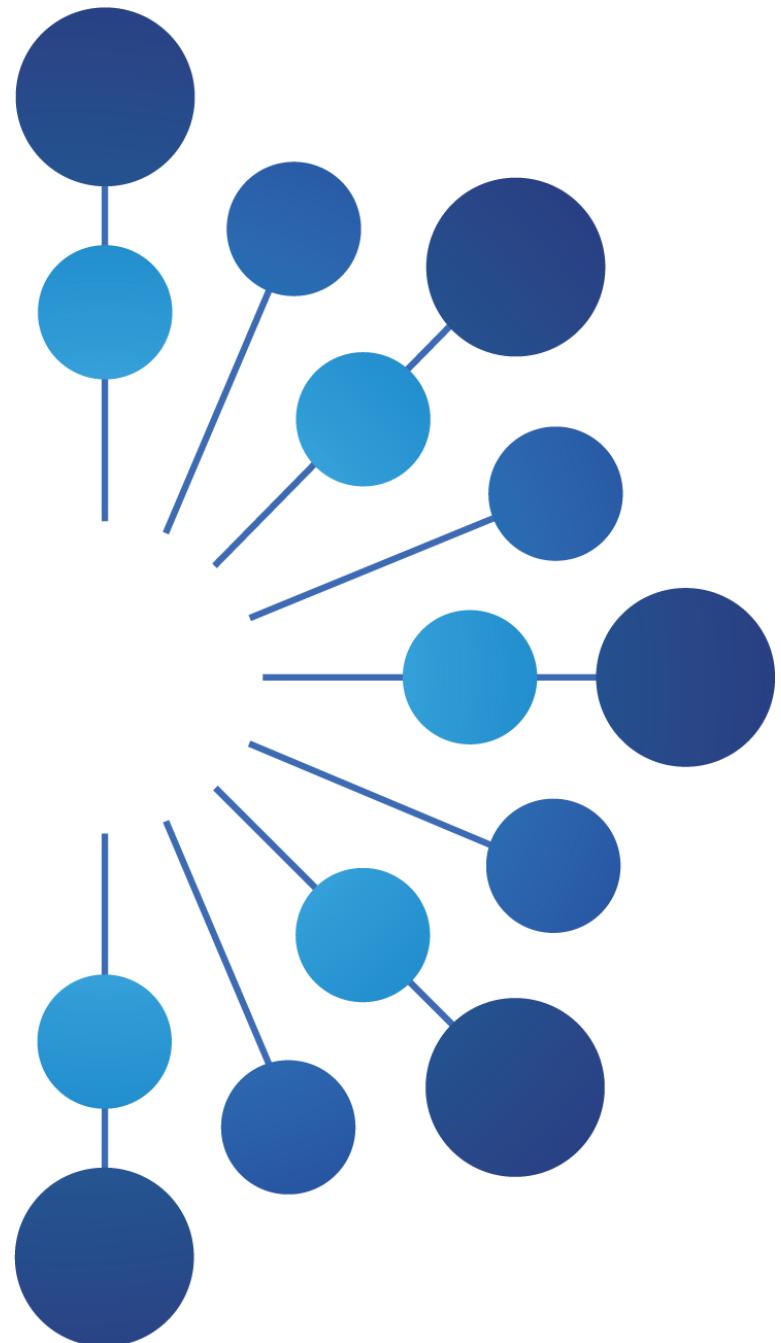




Consumer Perspectives



Teresa Corbin
ACCAN



Smart Industries & Cities: Sectoral Representatives Panel Session

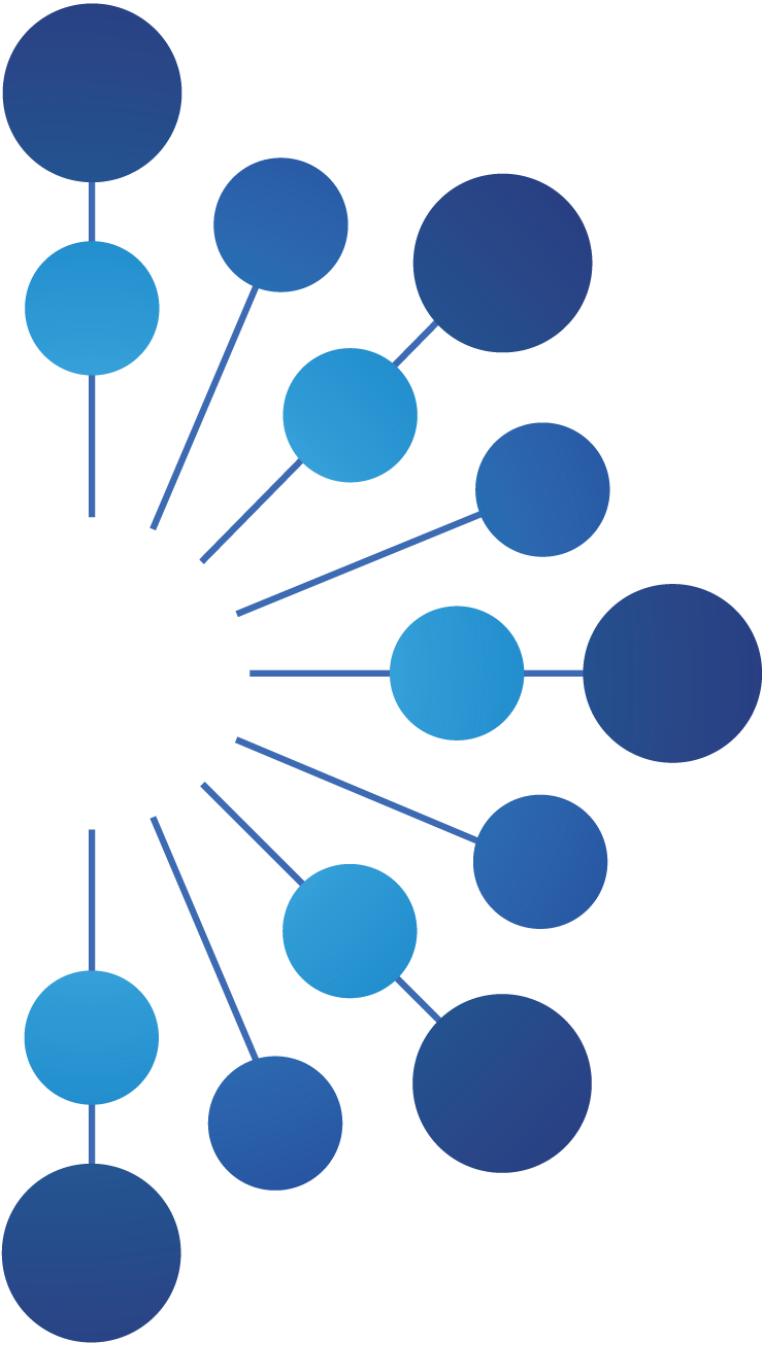
Moderated by Geof Heydon, Creator Tech

 Catherine Caruana-McManus, Giant Ideas

 Craig Carter Fujitsu

 Andrea Koch Soil Big Data

 Mark Atkinson Itron



Hypercat Update



Piers Hogarth-Scott
KPMG



Justin Anderson
Flexeye

A blurred background image of a futuristic city skyline with numerous skyscrapers, green roofs, and a prominent tower with a circular observation deck.

Justin Anderson

Executive Chairman Flexeye
Founder & Director HyperCat

Piers Hogarth Scott

National IoT Leader, KPMG



BUILDING AN INTEROPERABLE SMART WORLD

WHAT IS HYPERCAT?



Hypercat is an alliance and a standard driving secure and interoperable Internet Things for cities and industry

Hypercat was established 3 years ago in the UK with £15m funding by UK government & industry

Hypercat aims to accelerate market adoption of IoT by creating an interoperable ecosystem to give confidence to the buy side that they can evolve systems and avoid vendor lock in

The Hypercat Alliance aims to create an inclusive one-stop shop of best practice IoT implementation through the sharing of knowledge of processes and application

HyperCat currently has more than 1000 members from industry and the IoT ecosystem



Hypercat is also a standard for interoperability for connected IoT devices

BSI PAS 212 (the Hypercat Specification) with a vision for the Specification to become the global preferred route to data across all sectors of the economy, including cities, infrastructure, health, transport and manufacturing.

The World Wide Web Consortium (W3C) supports Hypercat in complimenting PAS 212 by identifying Industry Specific Use Cases and Requirements for the various IoT pillars in order to transition technical work associated with the Web to an appropriate group in W3C

Standards Australia currently exploring leveraging PAS 212 as an Australian Standard



Hypercat was launched today by the Australian government as an Anglo-Australian collaboration in Smart Cities



"Hypercat Australia will allow a platform to facilitate cutting edge technology solutions to be applied to urban problems. This will be the focus of our recently announced Smart Cities and Suburbs Program."

Hon Angus Taylor MP, Assistant Minister for Cities and Digital Transformation



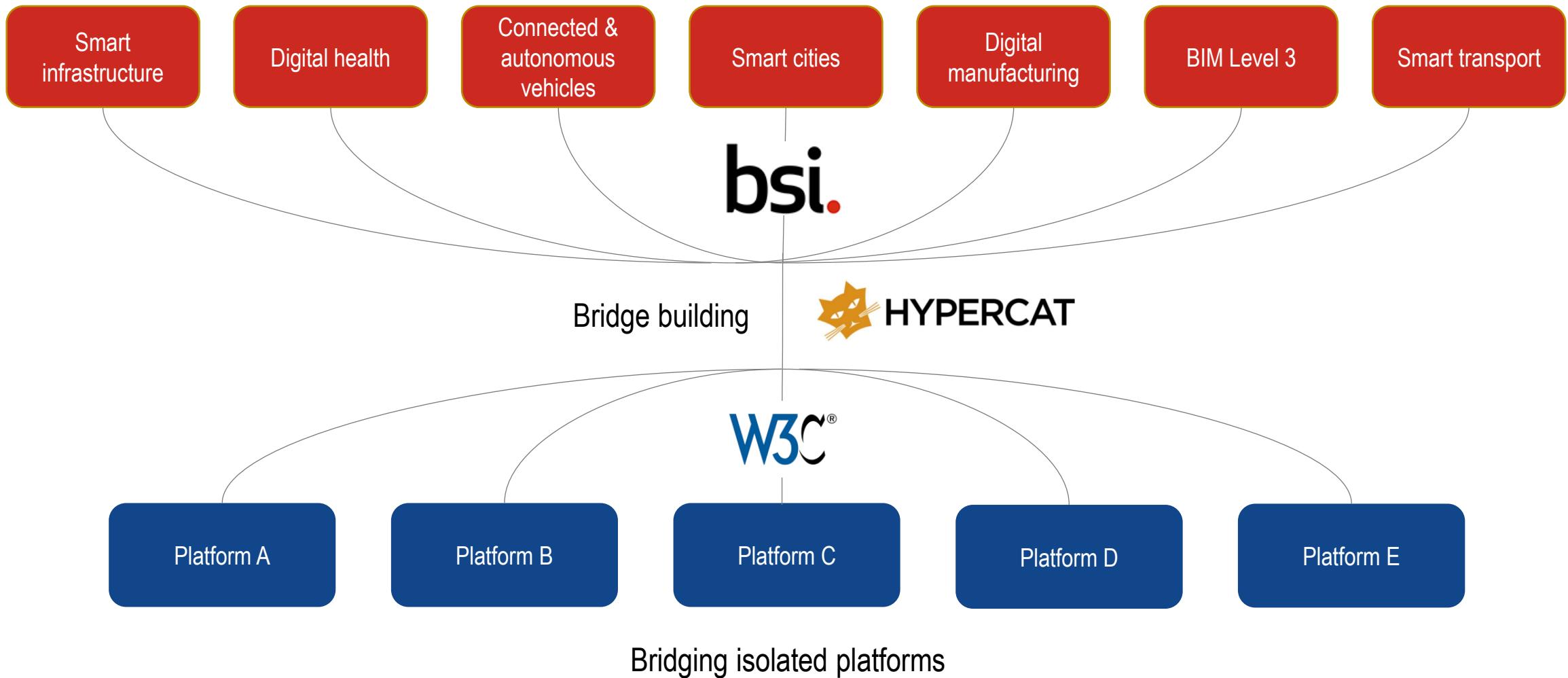
"Hypercat was established in the UK with government support to enable Britain to take a lead on smart city investments. We are very pleased to help build on the success of Hypercat by supporting its launch in Australia as an Anglo-Australian collaboration in smart cities and IoT."

Nick McInnes, British Consul General

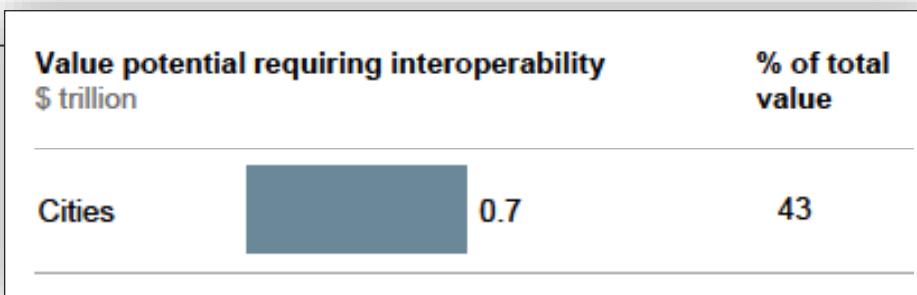
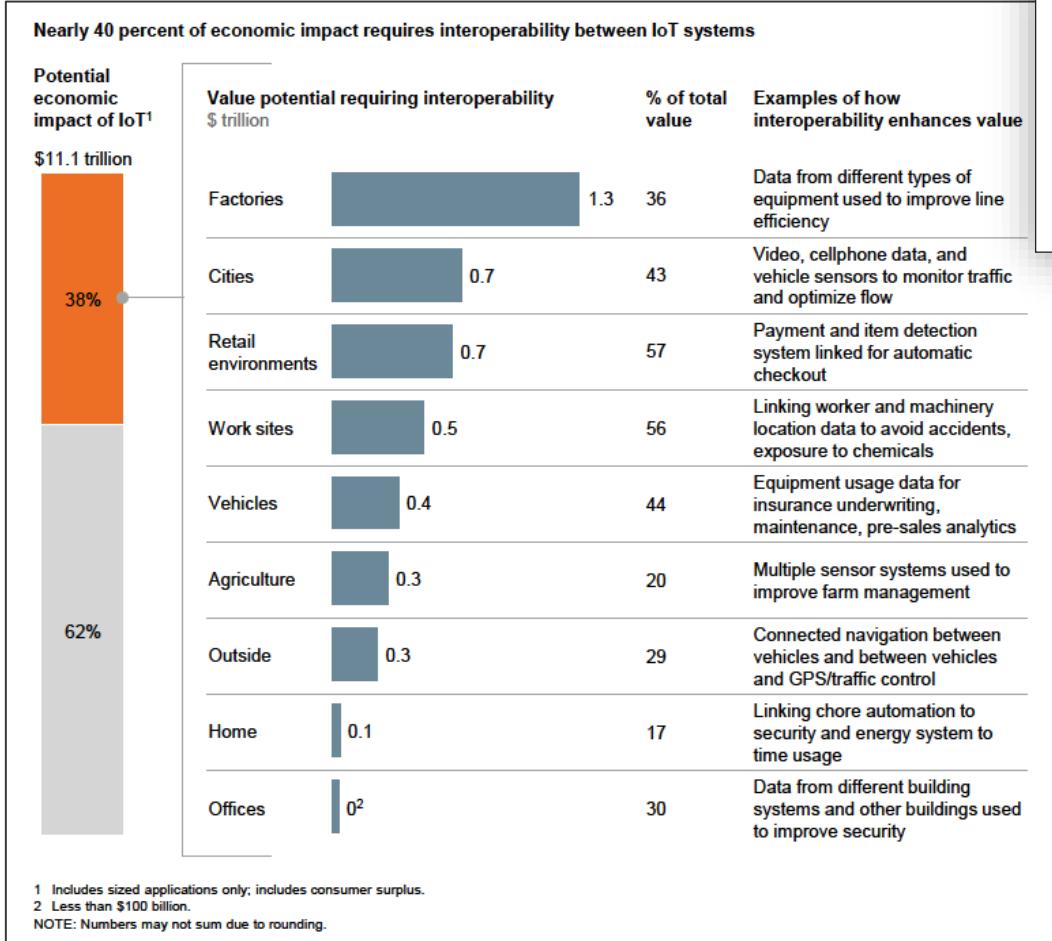
A COLLABORATION BETWEEN STANDARDS DEVELOPMENT ORGANISATIONS



Convening communities, finding consensus and accelerating market development



INTEROPERABILITY CORE TO ECONOMIC IMPACT



40%
Share of value
enabled
by interoperability

Resource Discovery

Common, machine-readable API: HTTPS, REST, JSON

Annotate existing APIs. A simple foundation.

Also

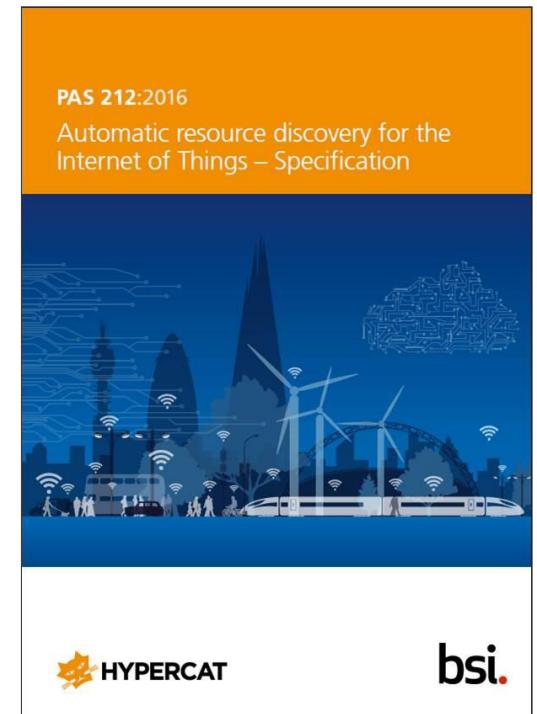
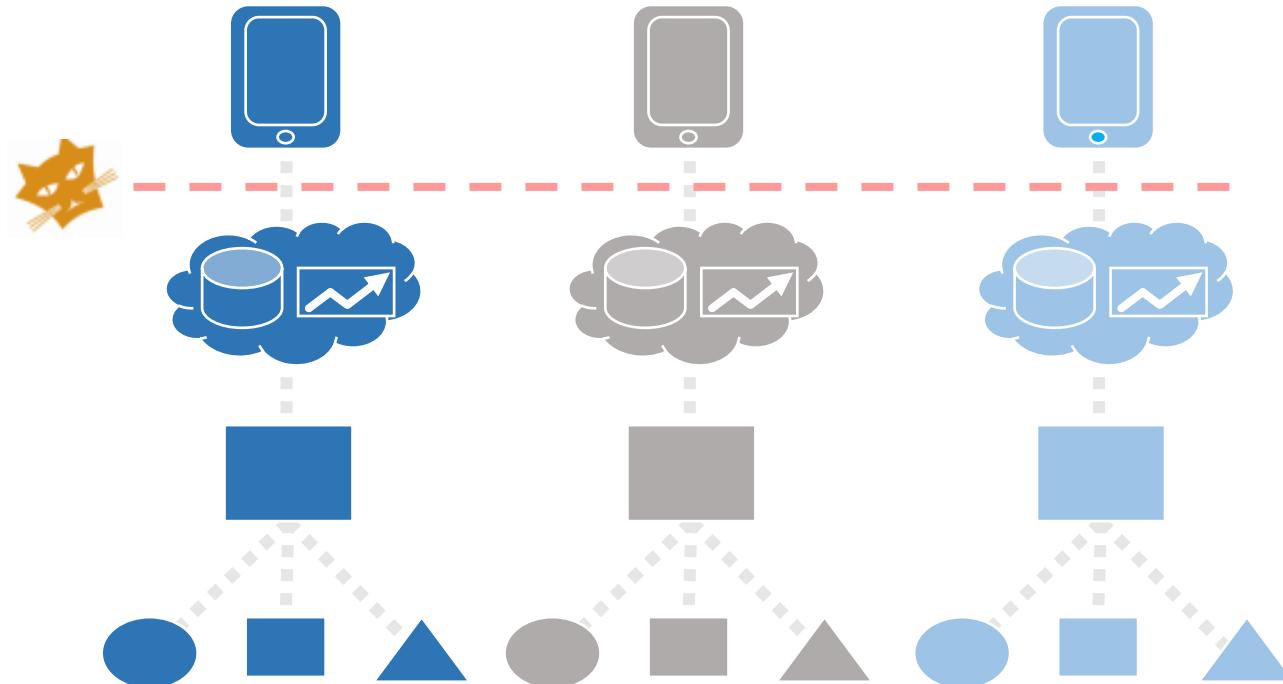
Security, Subscription, Search, Data licenses

 Clients
(UX and other services)

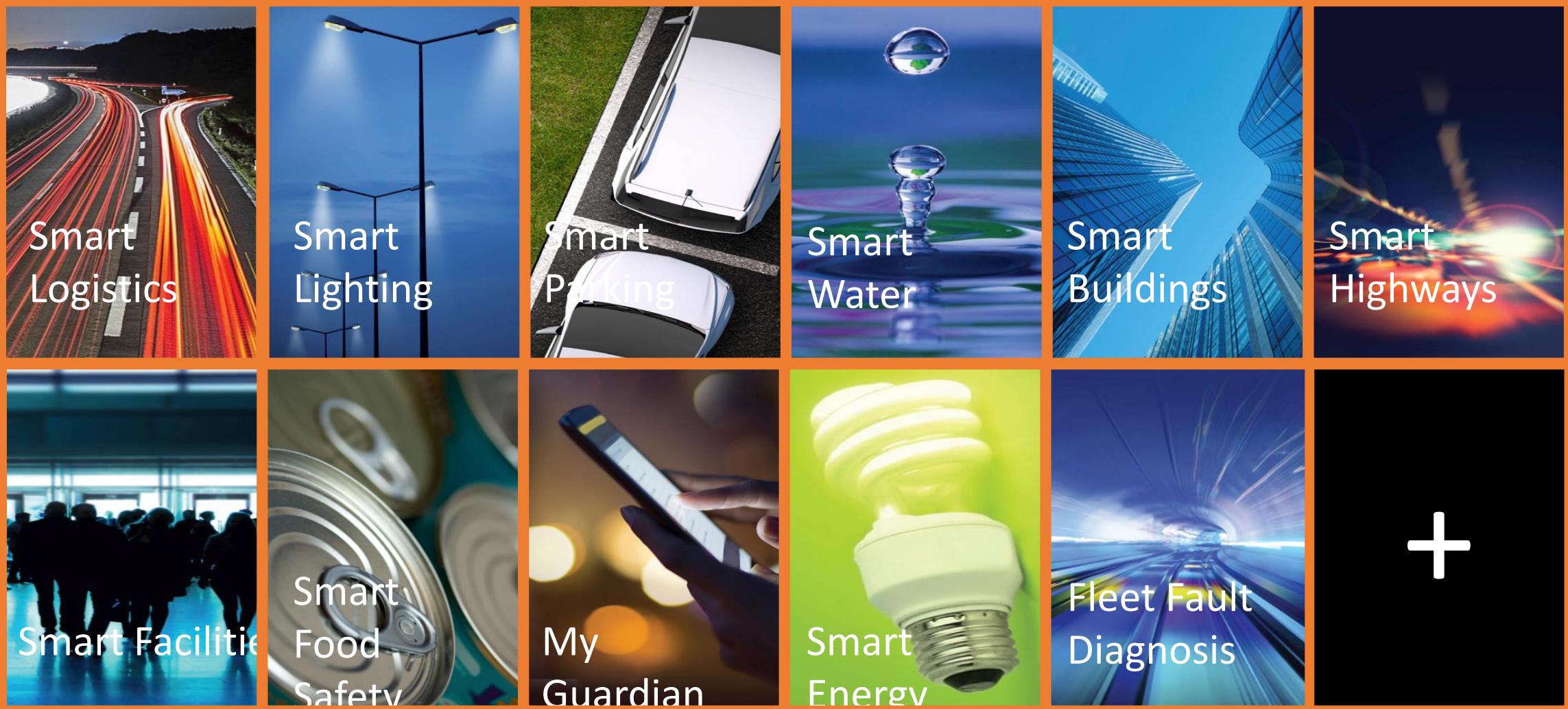
 Cloud services
(Storage, Analytics)

 Gateways
(devices onto the Internet)

 Devices
(sensors & actuators in the real world)



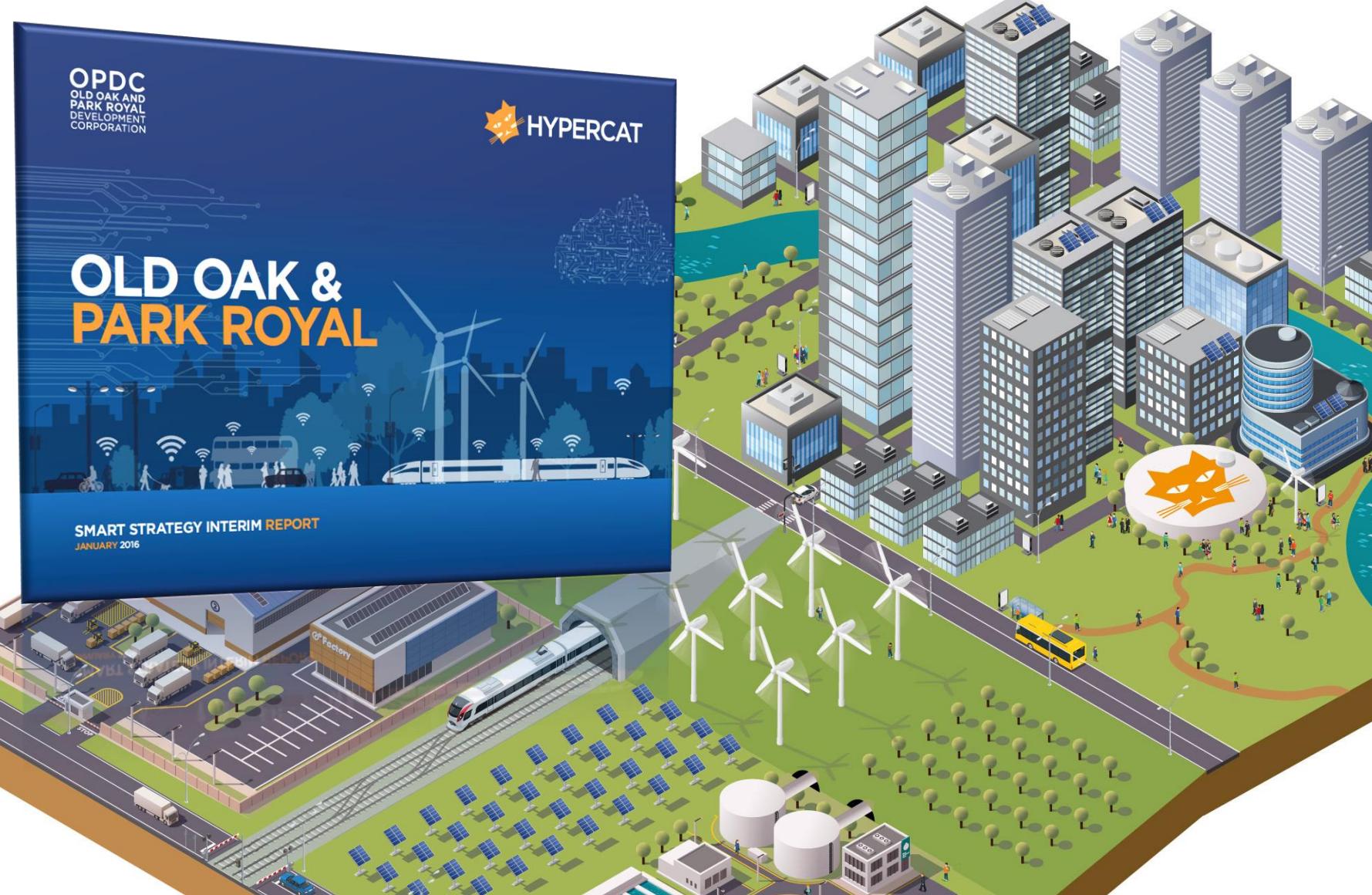
HYPERCAT SPEARHEADS



HYPERCAT VIDEO



SPEARHEAD PROJECT: Old Oak & Park Royal



**65,000
NEW JOBS**


**25,500
NEW HOMES**

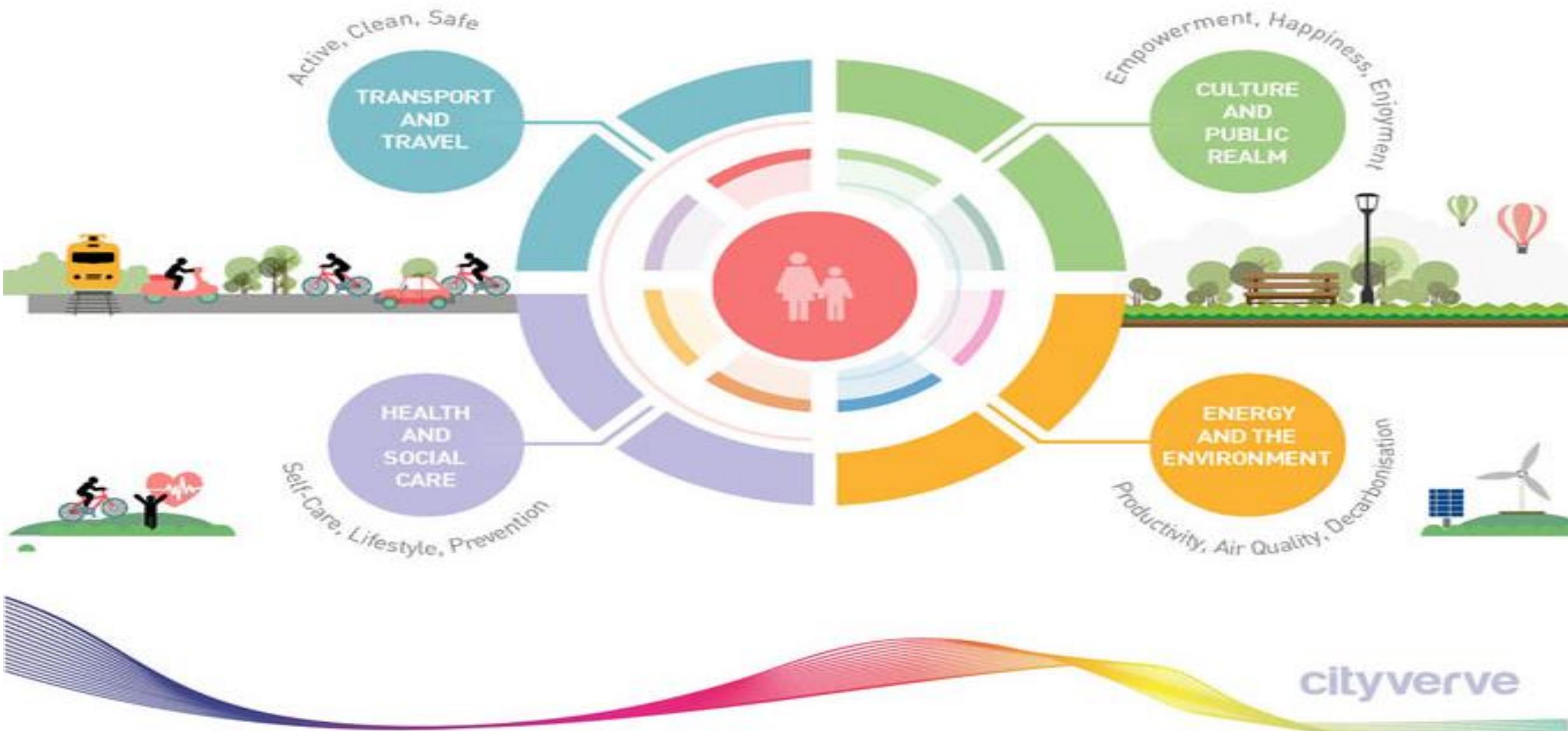

**RAIL SERVICE FOR
250,000
PASSENGERS
PER DAY**


SPEARHEAD PROJECT: RIVER CLYDE HOMES, GLASGOW



600 social houses at River Clyde Homes, Glasgow

MANDATED STANDARD IN GREATER MANCHESTER SMART CITY PROGRAM



cityverve

HYPERCAT AUSTRALIA – CALL FOR AUSTRALIAN MEMBERS



Hypercat Australia is being established as an independent, not-for-profit organisation and will be administered by the Knowledge Economy Institute led by Dr Mike Briers AO, Australia's first Industry Professor of IoT at the University of Technology Sydney

Promoting organisation's brand and associated solutions across the Hypercat ecosystem.

Network actively with the Hypercat ecosystem which may open new partner or customer potentials.

Promote and contribute to building the Hypercat use cases across major industries.

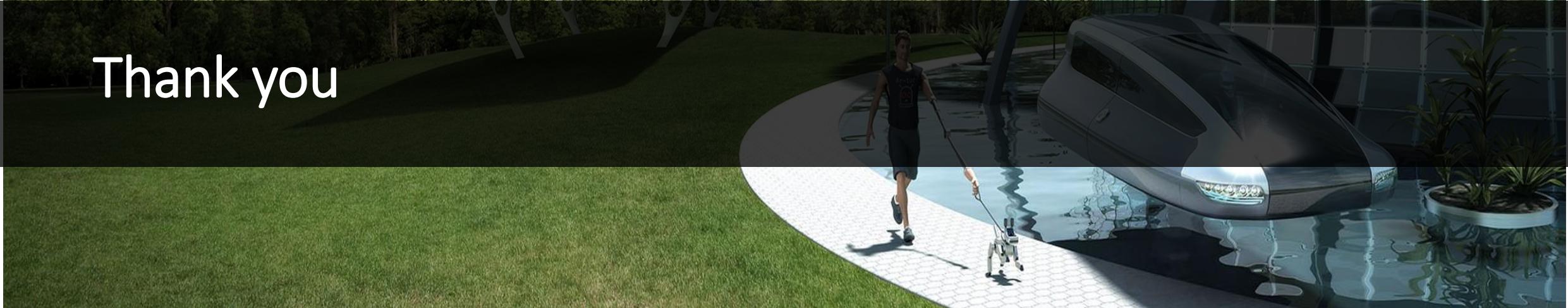
To register your interest in joining Hypercat Australia visit:

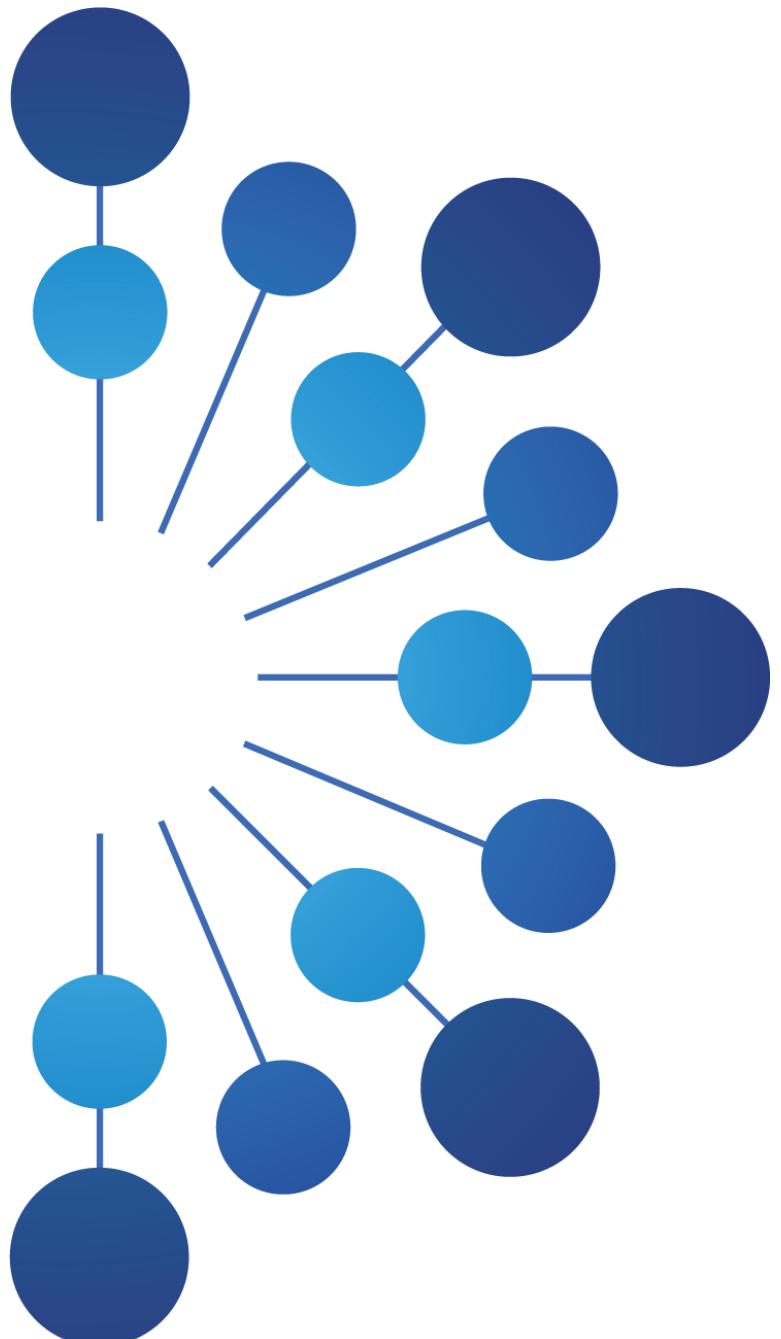
www.hypercat.io





Thank you

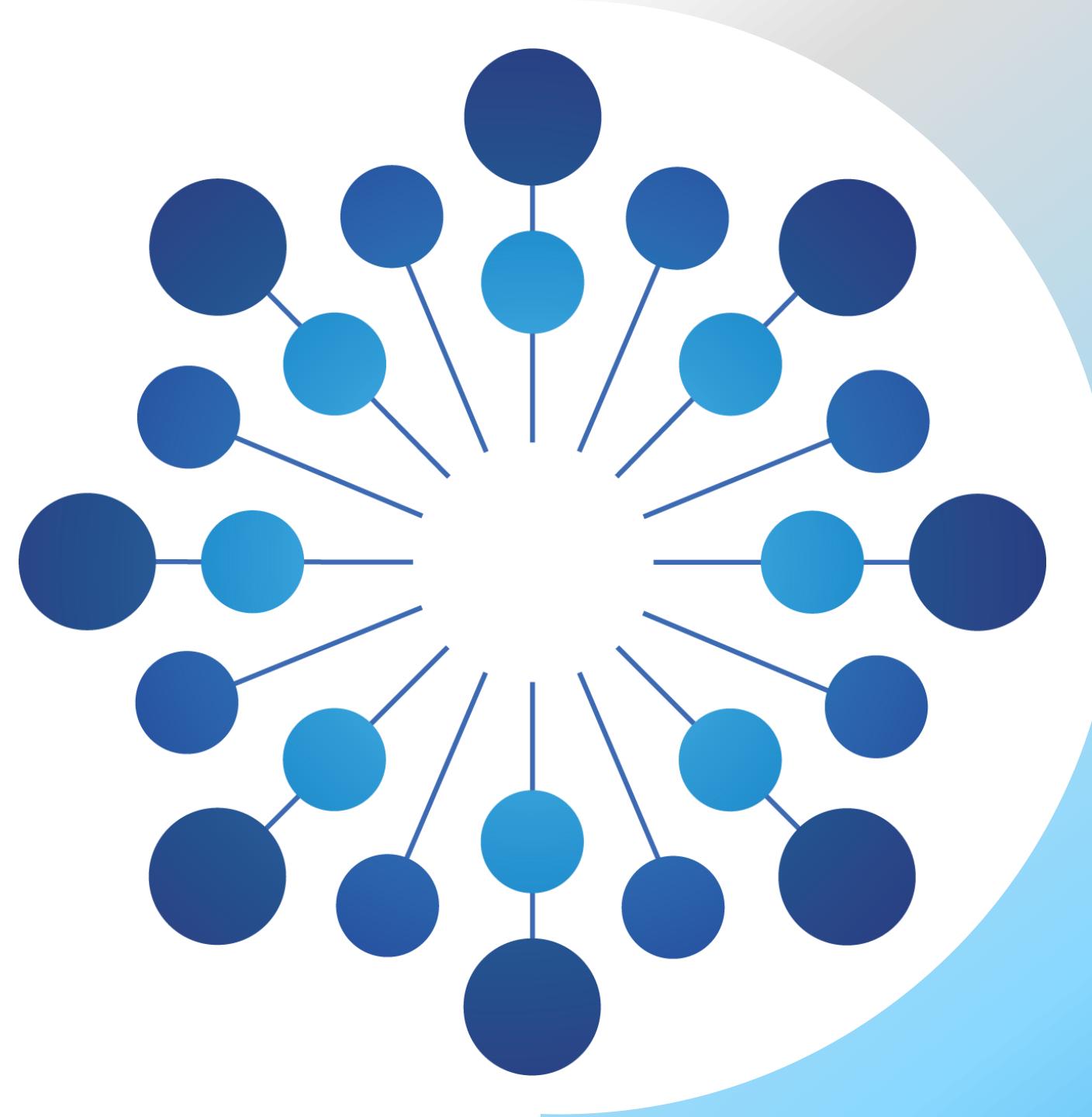




Closing Remarks



Dr Mike Briers AO
UTS



Drinks and Networking