

CONNECTED DIGITAL TWINS SUMMIT (CDTS) REPORT 2023

CATAPULT
Connected Places



DIGITAL
TWIN
HUB

Hosted at Connected
Places Catapult



FOREWORD

Reflecting on the Connected Digital Twins Summit, it is clear to me that we demonstrated the real value of the Gemini Principles and their importance in our digital twin journeys. Each digital twin is different, but their paths similar, in that we must ensure that our endeavours have a clear purpose, are trustworthy and that they function effectively.

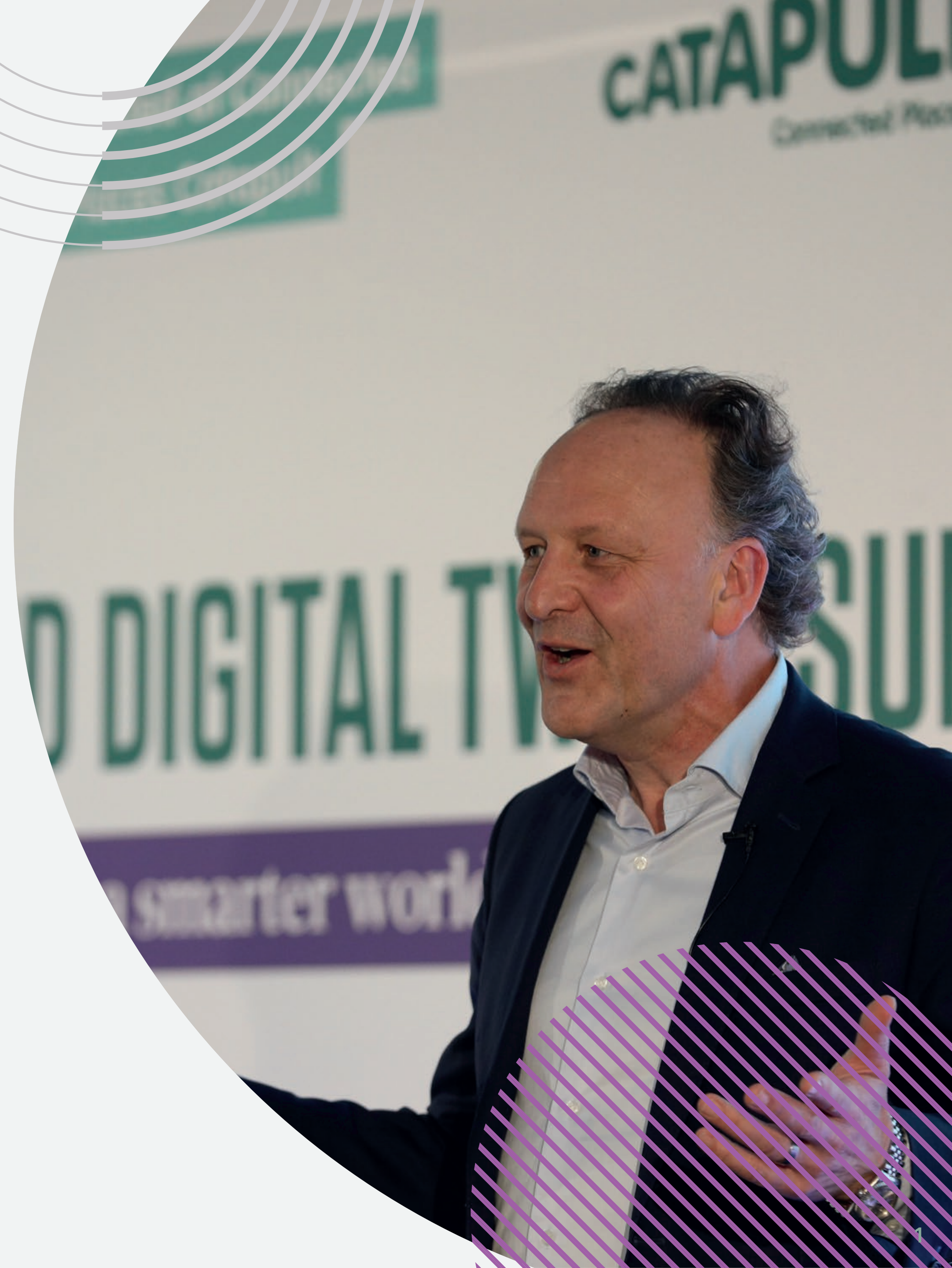
To do this, we must focus on outcomes and use digital twin thinking. We must make use of the learning we have already as a community, and build on it. We must be able to interpret the value of digital twins for different audiences, share information and push boundaries for interoperability. We must consider ethics, and connect people, finance and use cases to make digital twins work for business and society. And importantly, we must lead on education and communication, creating an open and accessible ecosystem that nurtures and supports everyone.

The buzz in the room at the Summit tells me that if we want to make better decisions and create better global outcomes for people and nature, we can only do this by following these principles and working together.

JUSTIN ANDERSON, DIRECTOR, DIGITAL TWIN HUB

SAVE THE DATE: CONNECTED DIGITAL TWINS SUMMIT, 20TH JUNE 2024, LONDON.

KEEP THE CONVERSATION GOING: JOIN THE DT HUB TO CONNECT WITH EXPERTS AND INNOVATORS.





“The benefits of connected digital twins extend beyond business and economics. We must draw from the knowledge we have created between us so far and work together towards a more sustainable and resilient future, where connected digital twins play a significant role. An ecosystem of connected digital twins is a game-changing tool for us all to navigate in a fast moving and uncertain future. Systems thinking will create a smarter world.”

**ALISON VINCENT,
CHAIR OF THE DT HUB STRATEGIC BOARD**

“The joy of digital twins is that they give us the feeling of similarity and difference. Their transformative power is set to grow.”

**THE RT HON JESSE NORMAN MP,
MINISTER OF STATE
DECARBONISATION AND TECHNOLOGY,
DEPARTMENT FOR TRANSPORT**



“We are doing fantastic research and collecting some interesting use cases, but if all we do is collect a whole host of isolated digital twins that are unconnectable, we will have failed in both the technology and in a social way.”

**MIRANDA SHARP,
ASSOCIATE AT THE ODI AND CEO
AND FOUNDER AT METIS DIGITAL**



“We tend to say data is the new gold, but moving forwards maybe transparency is the new gold. There will be increased demand for sharing what is going on.”

**KJELL ERIKSSON,
VICE PRESIDENT,
DIGITAL PARTNERING, DNV**





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CONNECTED DIGITAL TWINS SUMMIT

for a smarter world

#CDTS



headline partner

DNV

CDTS IN NUMBERS



53
COUNTRIES



67
SPEAKERS



675
COMPANIES



900+
ATTENDEES



3
TRACKS



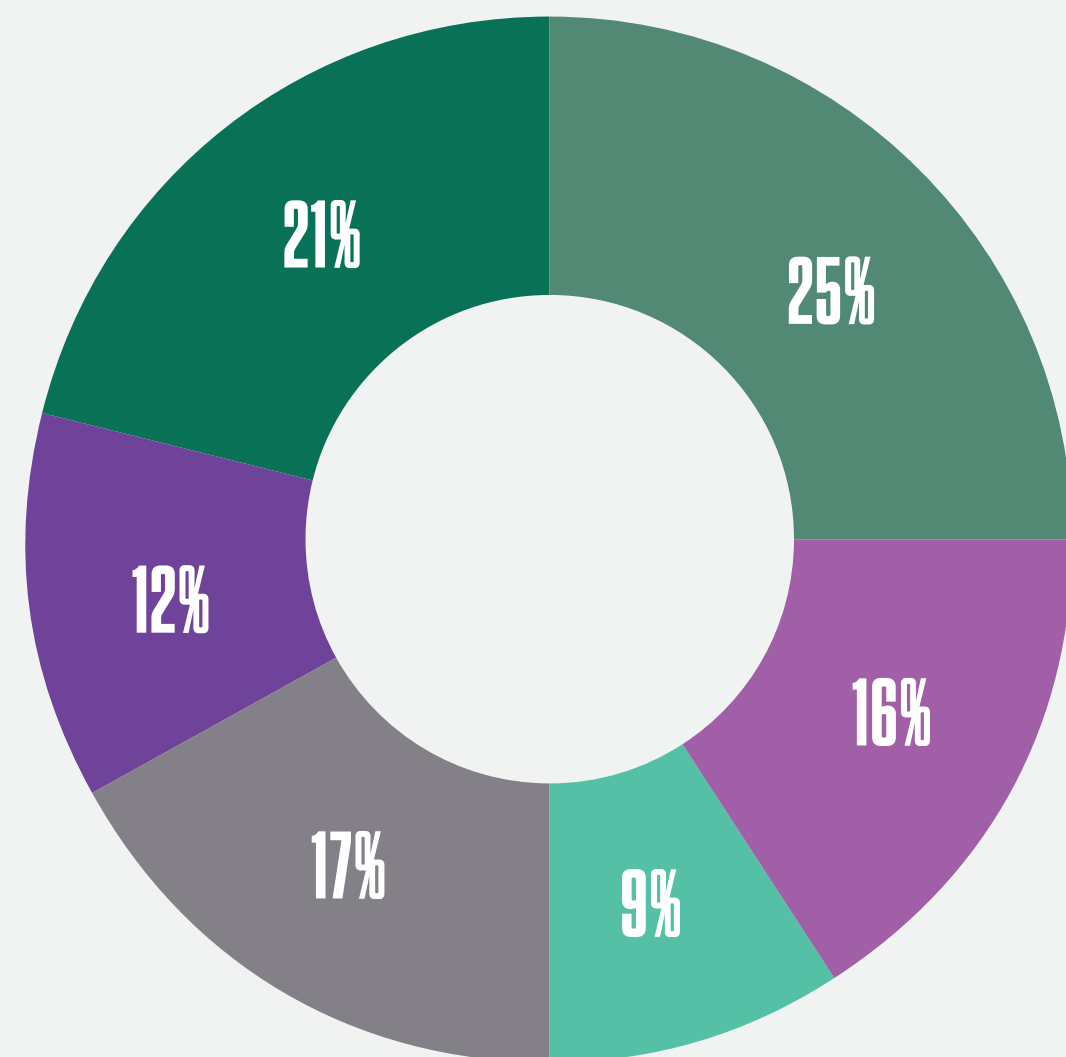
20+
SESSIONS



27
PARTNERS

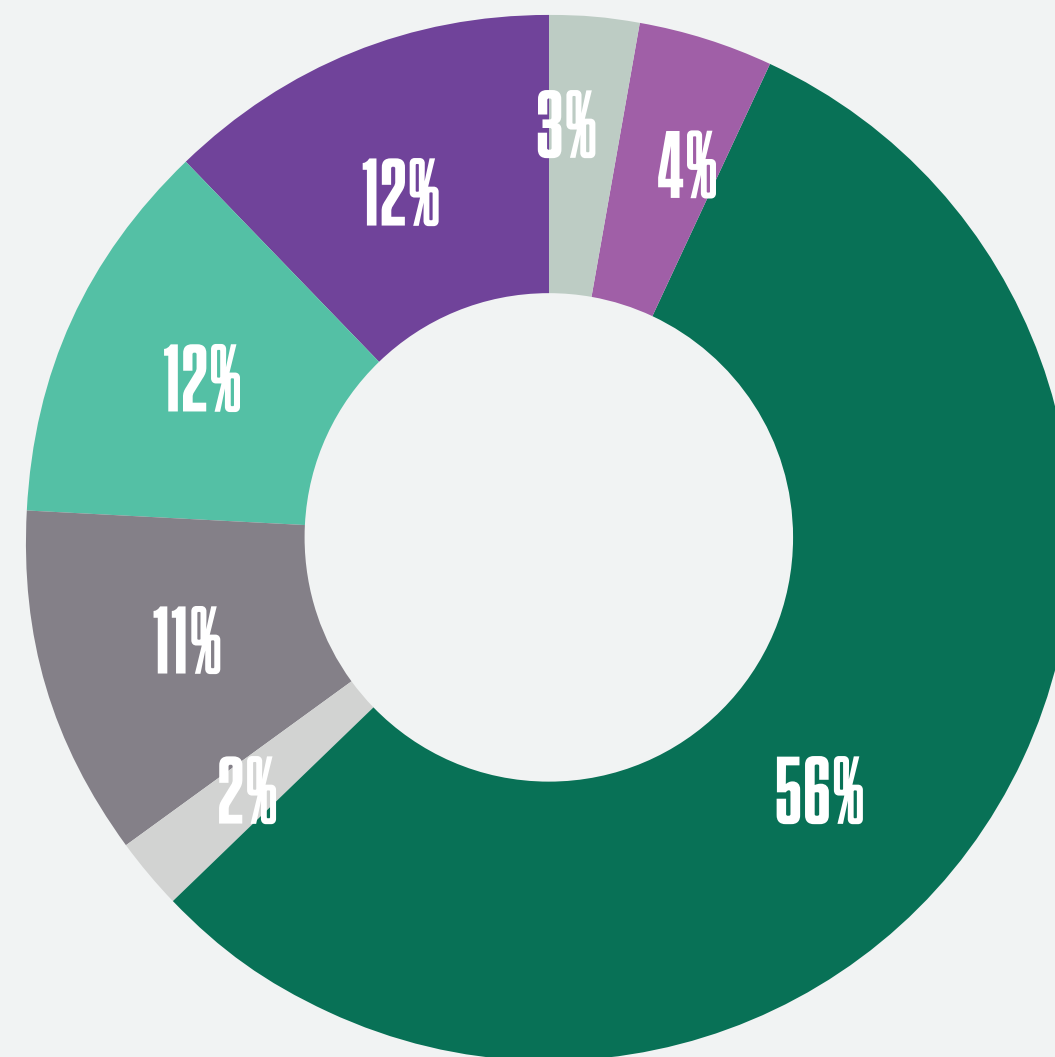
ATTENDANCE

ECOSYSTEM %



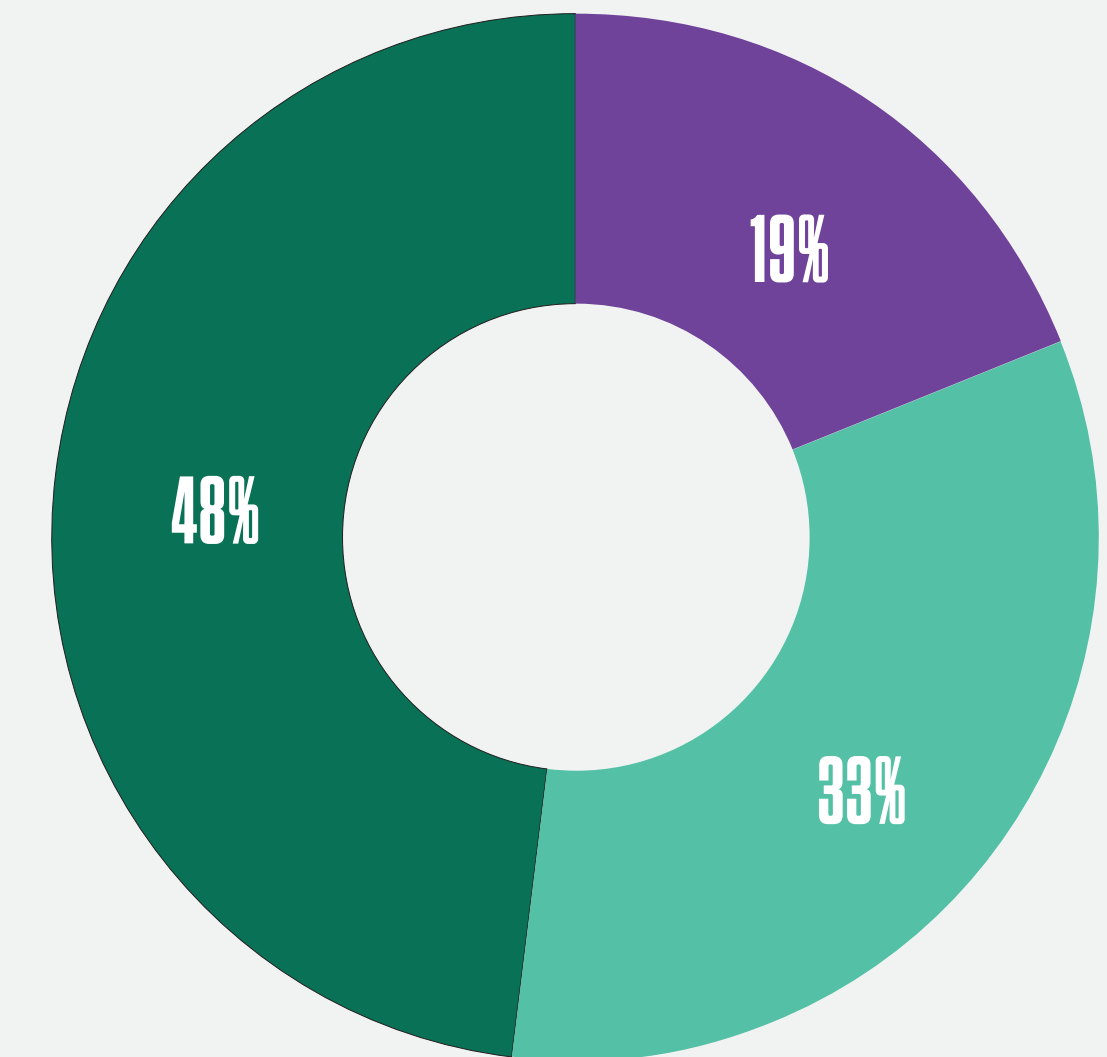
- AIRMOBILITY & AIRPORTS
- MARITIME & PORTS
- RAIL & STATIONS
- INTEGRATED INFRASTRUCTURE
- PLACE LEADERSHIP
- HOMES & HOUSING

COMPANY TYPE %



- AGENCIES AND DELIVERY BODIES
- CENTRAL GOVERNMENT
- INDUSTRY
- LOCAL GOVERNMENT
- OTHER
- RESEARCH AND ACADEMIA
- SME

SENIORITY %



- CXO
- DIRECTOR +
- MANAGER +



“Communication is absolutely the single biggest thing for me. People sometimes have varied skill sets and expertise about how to implement digital, so how we use digital twins incrementally will be the really challenging part.”

**STEVE EGLINTON,
SENIOR CONSULTANT,
ASSET MANAGEMENT SYSTEMS,
WORLD BANK**

“Digital twins could be as profound a revolution as to how we interact with information as the introduction of the Internet, and that will need a business model that doesn’t yet exist.”

**KEITH DEAR,
MANAGING DIRECTOR OF THE
CENTRE FOR COGNITIVE AND
ADVANCED TECHNOLOGIES,
FUJITSU**

“Buy into the concept, but not just how it is presented to you. It is an evolving and fast-moving space and there is a lot of room for new ideas and innovations. So, take what is out there, but shape it to make it your own.”

**DAVID WAGG, COORDINATOR
FOR TURING RESEARCH AND
INNOVATION CLUSTER**

“The manner in which digital twins are presented - the stories they tell - is important. What we are facing in the future is massive environmental and social changes. Digital twins have a key role in being able to articulate the future vision and setting out the possibility of interventions to mitigate risk.”

**JANET GREENWOOD,
ESG DIRECTOR, INFRASTRUCTURE
ADVISORY GROUP, KPMG**

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THANK YOU TO OUR SPEAKERS, INCLUDING...



**DR ALISON VINCENT,
CHAIR, DIGITAL TWIN HUB
STRATEGIC BOARD**



**SIMON EVANS,
GLOBAL DIGITAL ENERGY LEADER
AND THE GLOBAL DIGITAL TWIN
LEADER, ARUP**



**SOPHIE PEACHEY,
BUSINESS DEVELOPMENT
DIRECTOR, IOTICS**



**JUSTIN ANDERSON,
DIRECTOR,
DIGITAL TWIN HUB**



**SARAH HAYES,
ENGAGEMENT LEAD
FOR THE CREDO PROJECT**



**THE RT HON JESSE NORMAN MP,
MINISTER OF STATE,
DECARBONISATION AND TECHNOLOGY,
DEPARTMENT FOR TRANSPORT**



**KJELL ERIKSSON,
VICE PRESIDENT,
DIGITAL PARTNERING, DNV**



**SIMON HART,
HEAD OF DIGITAL TWINS
AND CYBERPHYSICAL
INFRASTRUCTURE,**



**JANET GREENWOOD,
ESG DIRECTOR, INFRASTRUCTURE
ADVISORY GROUP, KPMG**



**CAROLINA TORTORA,
HEAD OF INNOVATION STRATEGY
AND DIGITAL TRANSFORMATION,
NATIONAL GRID**

KEY OUTCOMES

OVER 900 COMMUNITY ATTENDEES INCLUDING SENIOR POLICY MAKERS, CORPORATE ASSET OWNERS, SOLUTION PROVIDERS, ACADEMICS AND INVESTORS.

Publication of 8 new case studies

Launch of the Gemini Alliance to bridge the gap between the digital twin hub and educational providers - addressing the socio-technical skills needed to finance, design, build and connect digital twins, including 6 new e-learning modules

Launch of the Transport Research and Innovation Board Vision and Roadmap to 2035 by the Rt Hon Jesse Norman MP, Minister of State for Transport



AS HEARD IN THE COMMUNITY



Make use of the artefacts we have (on the DT Hub) and build on them

We need everything to be interoperable and connected eventually, but that's not an excuse for not starting now

We need digital skills but also storytelling and influencing to show the value and win over our stakeholders

The Digital Twin Hub has a role to play in bringing it all together

We should move away from a siloed training delivery approach – the key elements of what we need to learn are common, the difference is in how we apply it

We must connect money and relate it to outcomes. Financial metrics need to be as comprehensive as non-financial metrics - it's about the whole system

SAVE THE DATE: 20TH JUNE 2024, LONDON

GET IN TOUCH ABOUT PARTNERSHIPS AT THE SUMMIT

EVENTPARTNERSHIPS@CP.CATAPULT.ORG.UK

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