

Smart Places

Creating smarter, more resilient and
equitable societies

Dr Rick Robinson (he/his) FBCS CITP FRSA AoU
Director – Smart Places, Jacobs, UK & Europe
Cities & Places
Global Technology Leader, Connected, Secure &
Smart Cities & Places

rick.robinson@jacobs.com

Smart Places are a social, economic and environmental imperative

ECONOMIC

9/10 of the most valuable companies in the world are technology companies operating international online marketplaces in which an increasing proportion of economic, social and leisure transactions are conducted. They are worth **14%** of global GDP

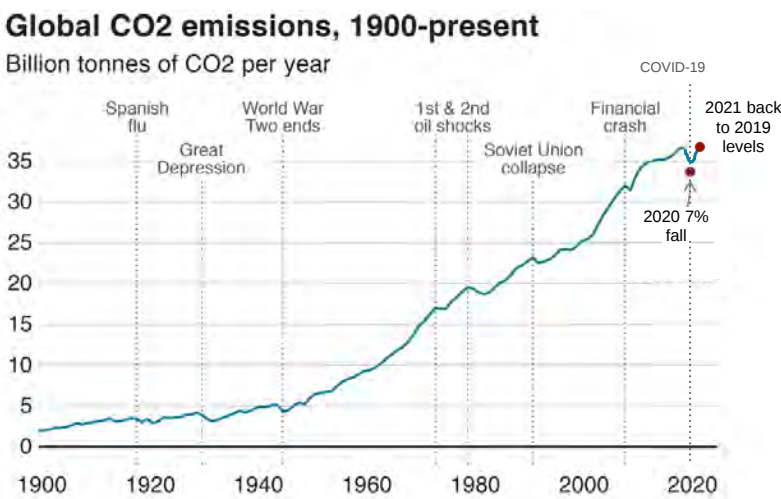
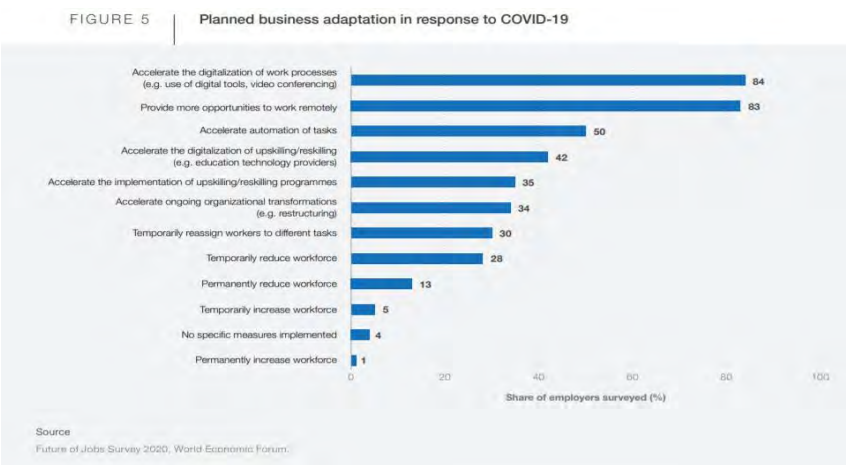
SOCIAL

As automation in the form of process automation, artificial intelligence and robotics accelerates, the World Economic Forum predicts that by 2025, **44%** of employees skills will need to change.

ENVIRONMENTAL

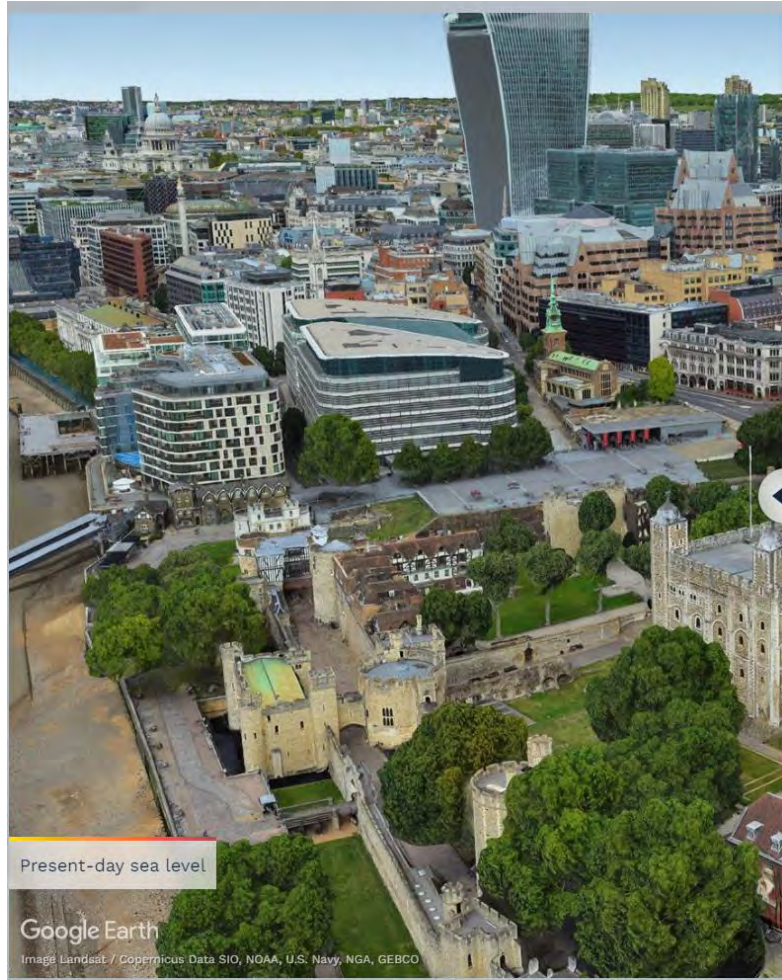
We need to repeat the reduction in carbon emissions in 2020 caused by COVID-19 lockdowns **EVERY YEAR** until 2050. Digital technologies such as remote working and circular economy marketplaces are likely to be among the tools we use to achieve that

	2002	2007	2012	2017	2022
1	General Electric \$372m	ExxonMobil \$430m	Apple \$559m	Apple \$867m	Apple \$2913m
2	Microsoft \$326m	General Electric \$363m	ExxonMobil \$409m	Alphabet \$727m	Microsoft \$2525m
3	ExxonMobil \$300m	Microsoft \$272m	PetroChina \$279m	Microsoft \$660m	Alphabet \$1922m
4	Walmart \$273m	Citigroup \$252m	Microsoft \$271m	Amazon \$564m	Amazon \$1691m
5	Citigroup \$255m	AT&T \$246m	IBM \$242m	Facebook \$513m	Tesla \$1061m
6	Pfizer \$249m	Gazprom \$245m	ICBC \$236m	Tencent \$493m	Meta \$936m
7	Intel Corporation \$203m	Toyota \$230m	Royal Dutch Shell \$222m	Berkshire Hathaway \$489m	Nvidia \$733m
8	BP \$201m	Bank of America \$228m	China Mobile \$221m	Alibaba Group \$441m	Berkshire Hathaway \$669m
9	Johnson & Johnson \$198m	ICBC \$224m	General Electric \$212m	Johnson & Johnson \$375m	TSMC \$623m
10	Royal Dutch Shell \$190m	Royal Dutch Shell \$214m	Chevron Corporation \$212m	JPMorgan Chase \$371m	Tencent \$560m



The risk to our cities ... and our pension funds

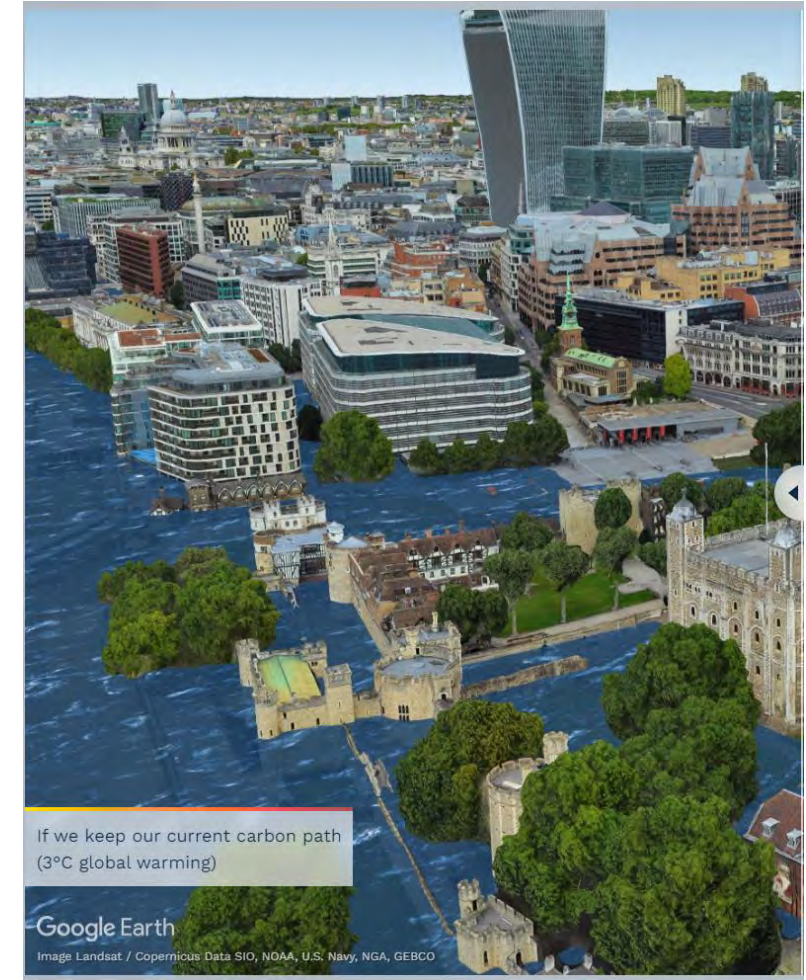
Today



Baked in result of 1.1° C rise to date



Effect of 3° C rise



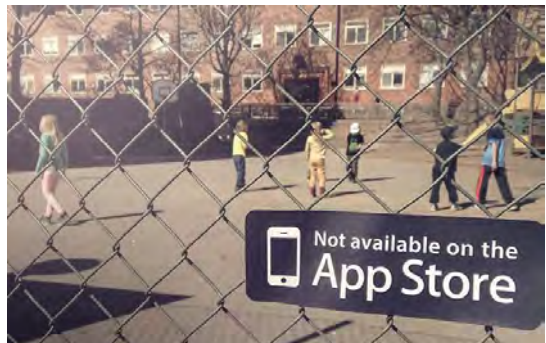
What is a Smart Place?



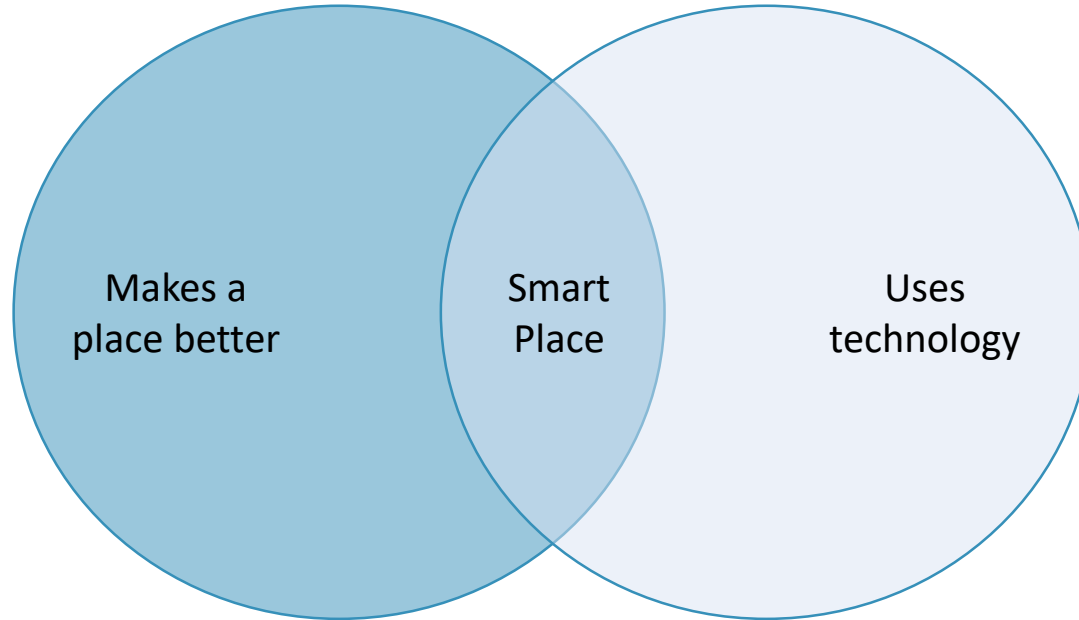
The metaverse



Circular economy



Vibrant public places



Digital skills & enablement



Community initiatives



Smart mobility



Smart energy grid



Intelligent operations

Places that create innovation

1475



Early 19th Century



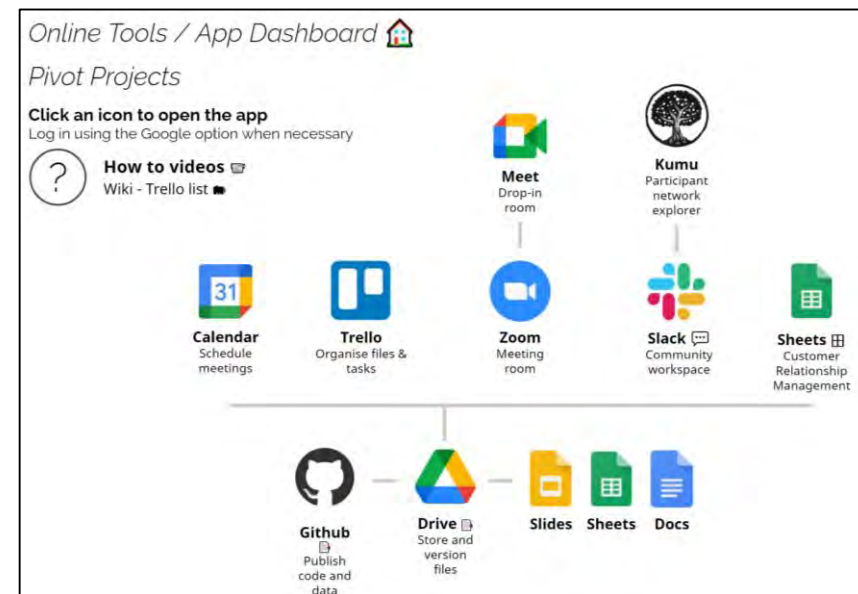
1906



2020



<https://www.pivotprojects.org/>



2020 to 2030?



Augmented reality glasses



Mixed reality collaboration



Digital Twin

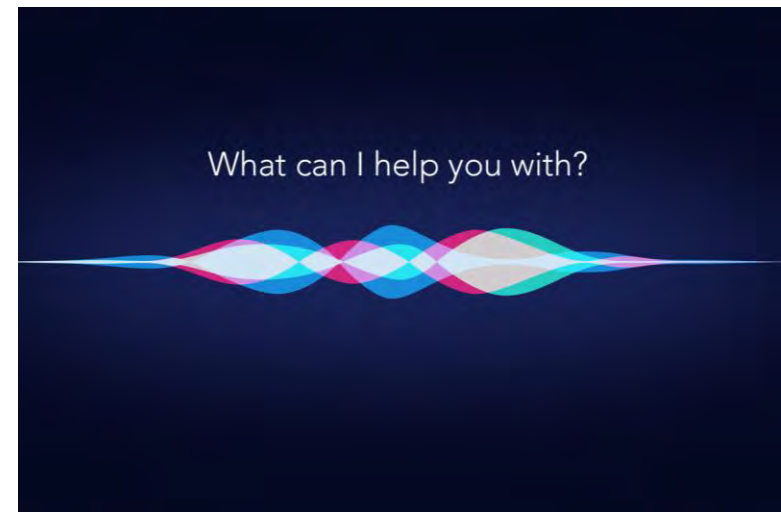
ECG control headset



Places that work like magic



Artificial intelligence



What do we want places to be?

Local



Creative



Social



Happy



Circular



Self-sustainable

Collaborative



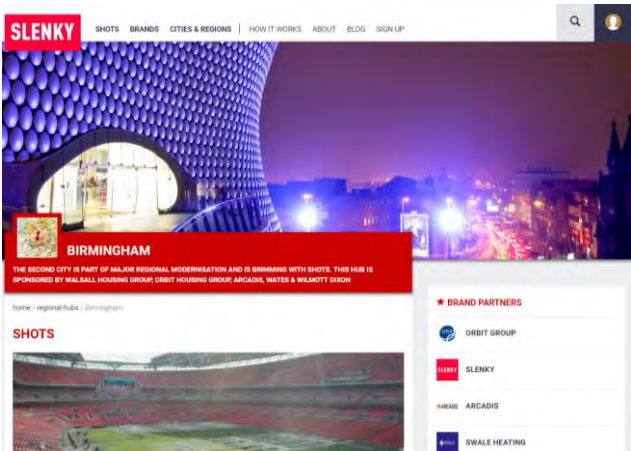
Healthy



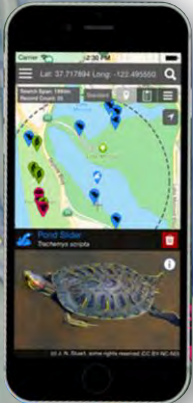
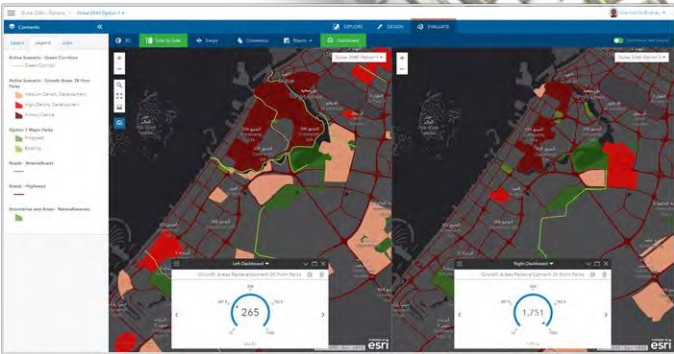
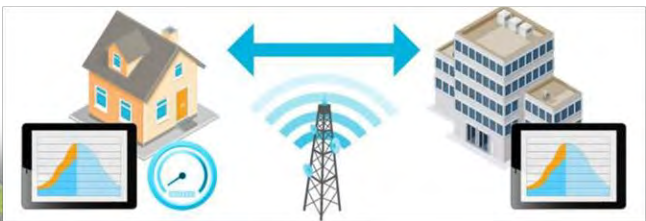
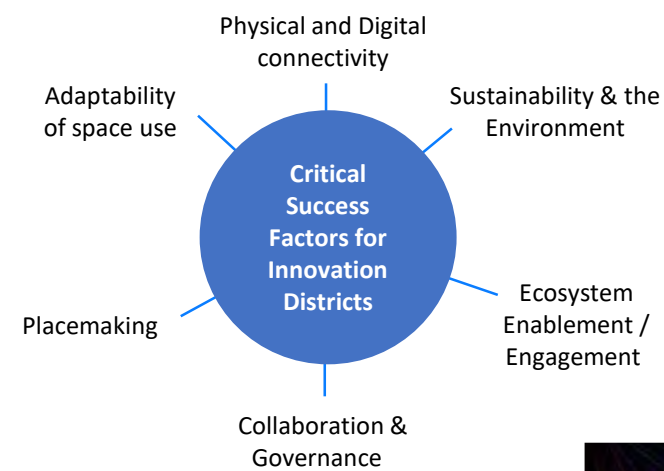
Human-scale



Birmingham Smart City Alliance



Meridian Water – a Sustainability Innovation Zone



Smart Places

Thankyou

A person with long dark hair, seen from behind, stands on a rooftop ledge. They are looking out over a vast cityscape at sunset. The sun is low on the horizon, creating a warm, golden glow that silhouettes the person and the city buildings. A river winds through the city, and several bridges are visible. The sky is filled with soft, orange and yellow clouds.

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