

NEW CLEANTECH WORKING GROUP

Looking for greentech entrepreneurs for super-special project

Tech London Advocates's new cleantech working group!

Help bring together all the innovators in this space + make London's tech scene more sustainable

We're getting Al Gore! ☺

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SUSTAINABILITY TAXONOMY

SUSTAINABLE RESOURCE USE III.A		ENABLERS III.B	BROAD SUSTAINABILITY III.C
ENERGY	OTHER RESOURCES		
Building efficiency	Water and waste water	Fundamental technology or resource	General sustainability and resources
Renewable energy	Food, agriculture, and fishing	Finance, insurance and resource pricing	Natural environment and biodiversity conservation
Carbon and fossil fuels	Waste, materials and mineral extraction	Sustainability education, arts and media	Local economy and community
Electricity distribution and storage	Manufacturing and supply chains	Government, environmental regulation and participation	Environmental health and safety, air quality
ICTs (First order impacts)	Real estate, storage and construction		Adaptation and resilience to environmental risk
Transport and electric vehicles	Consumer goods		[Social and economic pillars of sustainability]



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HIGHER COMPLEXITY



CONNECTING

abundance



Social networking

Marketplaces

Blogs

Collaborative consumption

Crowdfunding

Discussion

Bitcoin

Teleconferencing

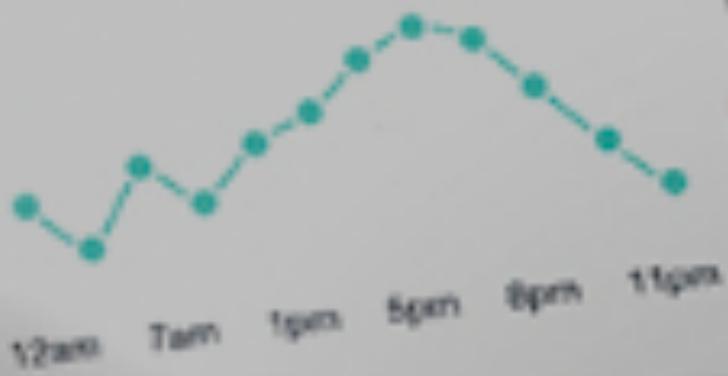
Coordination

GUIDING

My Water

Day Week Month Year

424 gal.
used today



Current goal: 400 gallons

edit



Peak hour: 8:00 AM



Best day: 200 gal.

10/15/13

dropcountr

Information visualisations

Dashboards

Behaviour change

Nudging

Gamification

Feedback

eEducation

eCampaigning

Navigation

Crowd tasks

Crowdsensing

Emotions

Wearables

A close-up photograph of a robotic arm. The arm is primarily white and orange, with a black cylindrical sensor mounted on one of its segments. The sensor has the brand name "URG" printed on it. The robotic arm is positioned over a dark, textured surface, possibly a track or a conveyor belt. The background is blurred, suggesting a workshop or laboratory environment.

PROVIDING

Automation

Robots

Drones

User control

Optimisation

3D printing

Artificial intelligence

Sensors

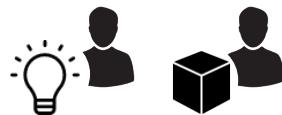
Scanners

Cameras

Simulations

ADOPTING

Where people propagate things and take them up e.g. buying a product or joining a group.
Also, where people disseminate and take up ideas, knowledge, opinions and agreements.



INNOVATING

Where novelty is developed. New things and ideas are designed and prototyped, and alterations to existing ones are planned to have the sought effects.



ASSESSING

Where knowledge is produced that informs effective action. Data and knowledge are gathered, analysed, refined and organised.



DRIVING

Where change is caused directly; where a system functions, having effects on the world, ideally the sought effects.



AUGMENTED CAPABILITY V.B.2
Digital system GUIDES someone, informing and influencing them to act to cause the sought effects.

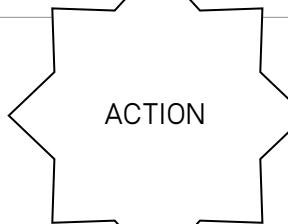
DIGITAL CAPABILITIES

COLLECTIVE CAPABILITY V.B.3

Digital system finds and CONNECTS people, to link supply and demand and act together to cause the sought effects.



ACTION



ARTIFICIAL CAPABILITY V.B.1

Digital system PROVIDES the change automatically, acting to cause the sought effects.

Monitoring

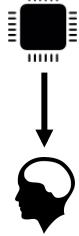
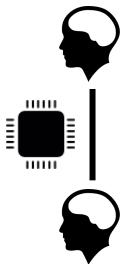


EFFECTS



CHALLENGES



DIGITAL CAPABILITY, Intelligence and function	CHANGE PROCESS				
	ASSESSING 	INNOVATING 	ADOPTING IDEAS 	ADOPTING THINGS 	DRIVING 
PROVIDING Artificial 	ARTIFICIAL ASSESSMENT Sensors Digital photography Remote sensing Simulations Volunteer computing Image recognition	ARTIFICIAL INNOVATION Computational creativity Distributed manufacturing (rapid prototyping)	N/A Guiding Assessing Innovating	TECH COMPONENTS Data processing and storage, cloud computing Data transmission and telecommunications Enabling robotics, drones and manufacturing tools Software languages and libraries <Viruses, worms and botnets>	ARTIFICIAL ACTION Automated optimization Robotics and drones Distributed manufacturing User control [First order effects of ICT, green computing]
GUIDING Augmented 	AUGMENTED ASSESSMENT Geographical information systems Crowd sensing Human computation Monitoring and profiling of emotion, opinion and identity Data analysis and mathematical software Wearable sensors <Data theft>	AUGMENTED INNOVATION Open innovation and opportunity identification Design and engineering analysis Knowledge-bases for design Ideation catalysts [Accelerators and incubators] [Digital agencies, software and design services]	AUGMENTED DISSEMINATION eEducation and educational games Visualisation and data journalism Leaks Content distribution Customisation (of ideas) <Social network bots and sock puppets>	AUGMENTED ADOPTION e-Marketing and digital advertising Customisation and installation planning Customer relationship management and services Electronic locks and access control Ticketing File download <Phishing, trojans and social engineering>	AUGMENTED ACTION Behaviour feedback System diagnostics Individual behaviour change and gamification Business intelligence and process management Real-time user guidance and navigation Knowledge-bases for action Crowd tasks Dematerialised content
CONNECTING Collective 	COLLECTIVE ASSESSMENT Accounting systems Sensor journalism Wikis and crowd analytical discussion Data platforms and standards Enterprise transactions Ratings and comparison (gathering)	COLLECTIVE INNOVATION Revision control and collaborative software Collaborative funding (for innovation) Organisational structuring Design sharing [Hackathons, meetups and coding events] [Investors] [Digital entrepreneurship]	COLLECTIVE DISSEMINATION News, analysis and blogs e-Campaigning and public relations Social networking Agreeing, prioritising, and e-participation Forums, comments and discussion Peer-to-peer content sharing Recommender (ideas) Activism, protest coordination	COLLECTIVE ADOPTION Collaborative funding (for adoption) Directories e-Marketplaces Job listings Group purchasing and community adoption Offers and discounts Sales team coordination Product service systems Redistribution markets Peer-to-peer software sharing Recommender (things)	COLLECTIVE ACTION Product service systems Redistribution markets Social behaviour change and gamification Teleconferencing Virtual services Distributed autonomous corporations (DACs) Activism, protest coordination, flash mobs <Distributed crypto-currency>

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CLEANWEB



cleanweb.org.uk

meetup.com/cleanweb-london

@CleanwebUK

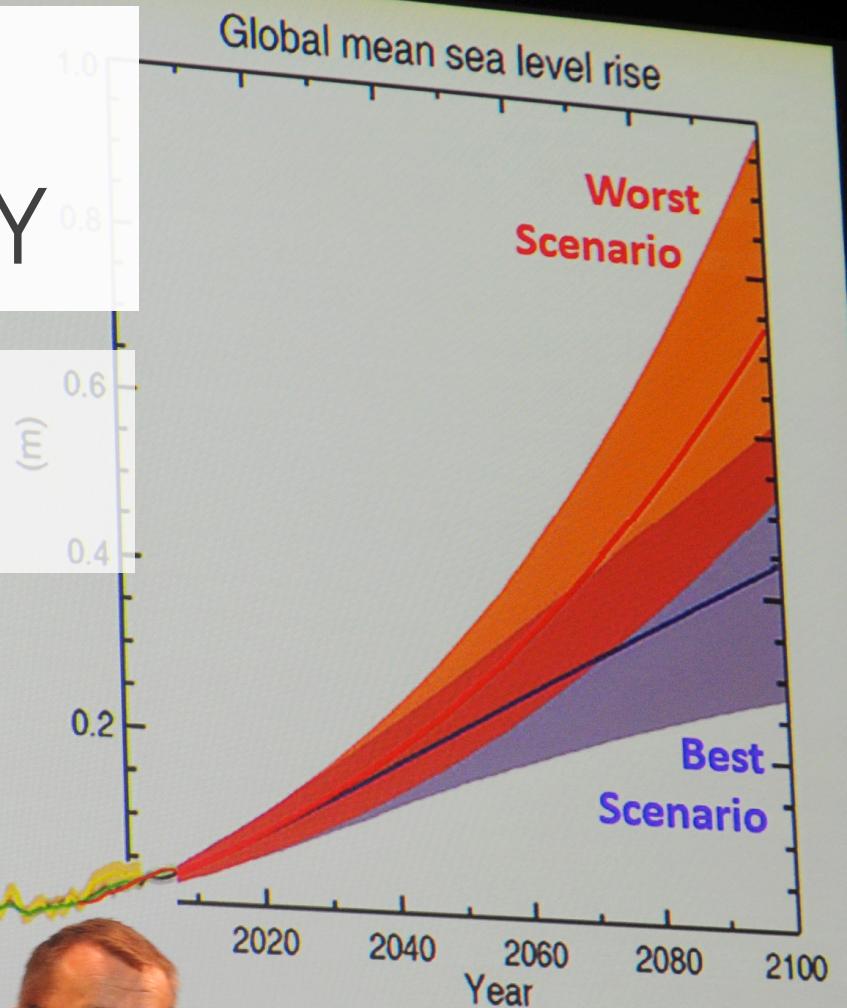
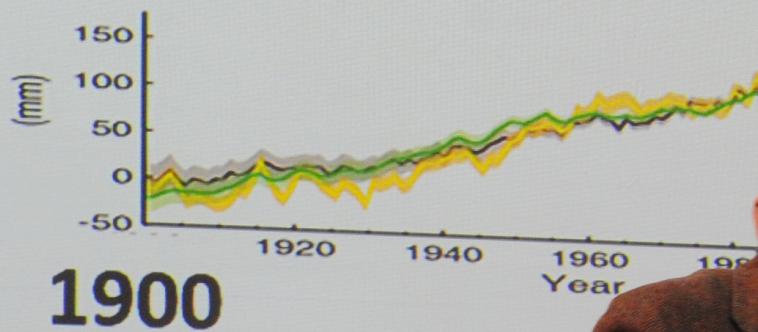
REGULAR LONDON EVENT ON WEB FOR SUSTAINABILITY

OPEN SUSTAINABILITY

sustainability.okfn.org

@OpenSusty

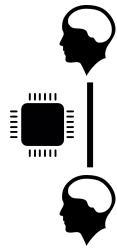
Global mean sea level rise



DISCUSSION LIST ON OPEN DATA FOR SUSTAINABILITY

Digital Power

?



CONNECT



GUIDE



PROVIDE

Opportunity

?

ACT



SPREAD THINGS



SPREAD IDEAS



INNOVATE



KNOWLEDGE