

# London 1990-2040, **THOUGHTS** for the NEXT 25 years?

Marcus Hale



“For the vast majority of human existence, it was safe to assume that the world in which you died would look pretty much the same as the one in which you were born.”

“We won’t experience 100 years of progress in the 21st century; it will be more like 20,000 years of progress (at today’s rate).”

*- Ray Kurzweil, Author, Inventor & Futurist*



$$A(x) = \frac{f(x) - f(a)}{x - a}$$



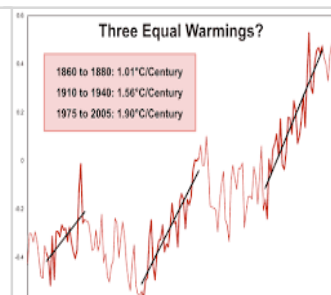
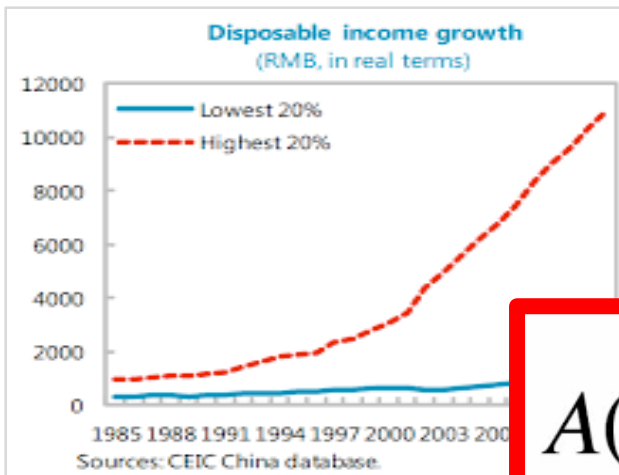
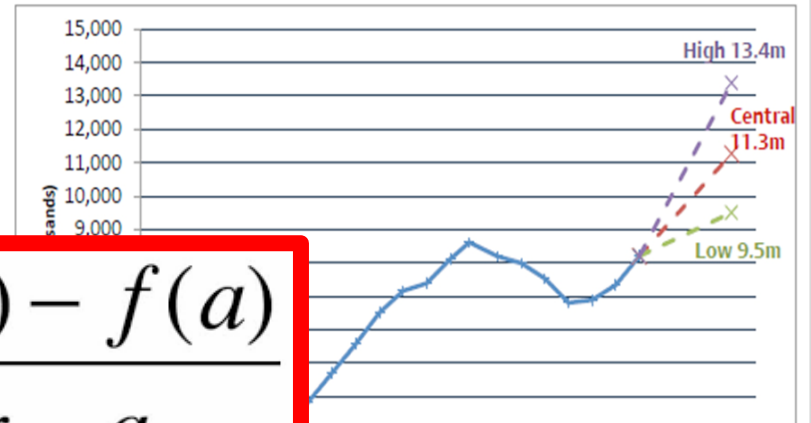


Figure 1: London's population (actual and projected)



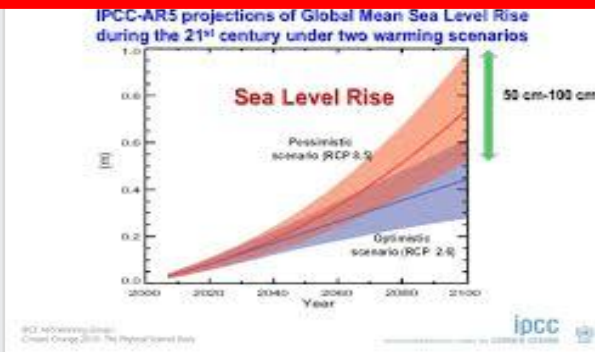
$$A(x) = \frac{f(x) - f(a)}{x - a}$$

### POPULATION OF THE EARTH

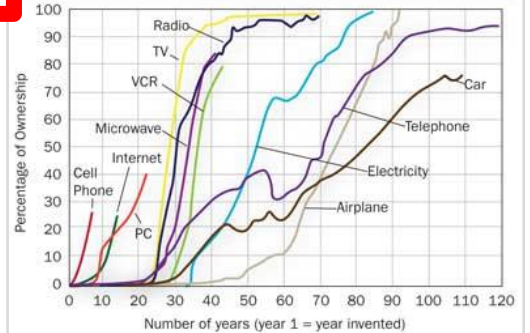
Number of people living worldwide since 1700 in billions



Source: United Nations World Population Prospects, Deutsche Stiftung Weltbevölkerung  
For further information please visit: [www.knowledge.allianz.com](http://www.knowledge.allianz.com)

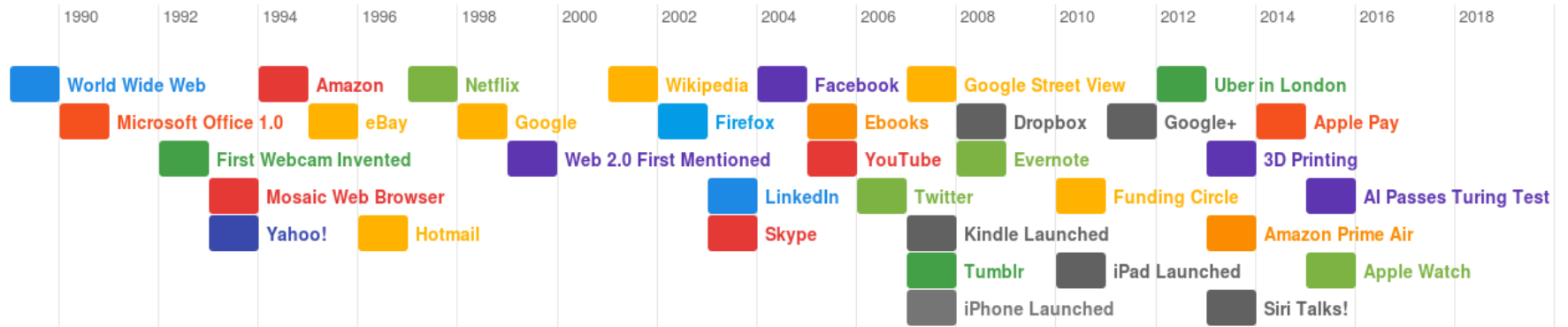


### Technology Adoption



Source: Forbes Magazine





**TRANSPORT**

**ENERGY**

**BUILDINGS**

**GOVERNANCE**

**DATA**

**CONNECTIVITY**

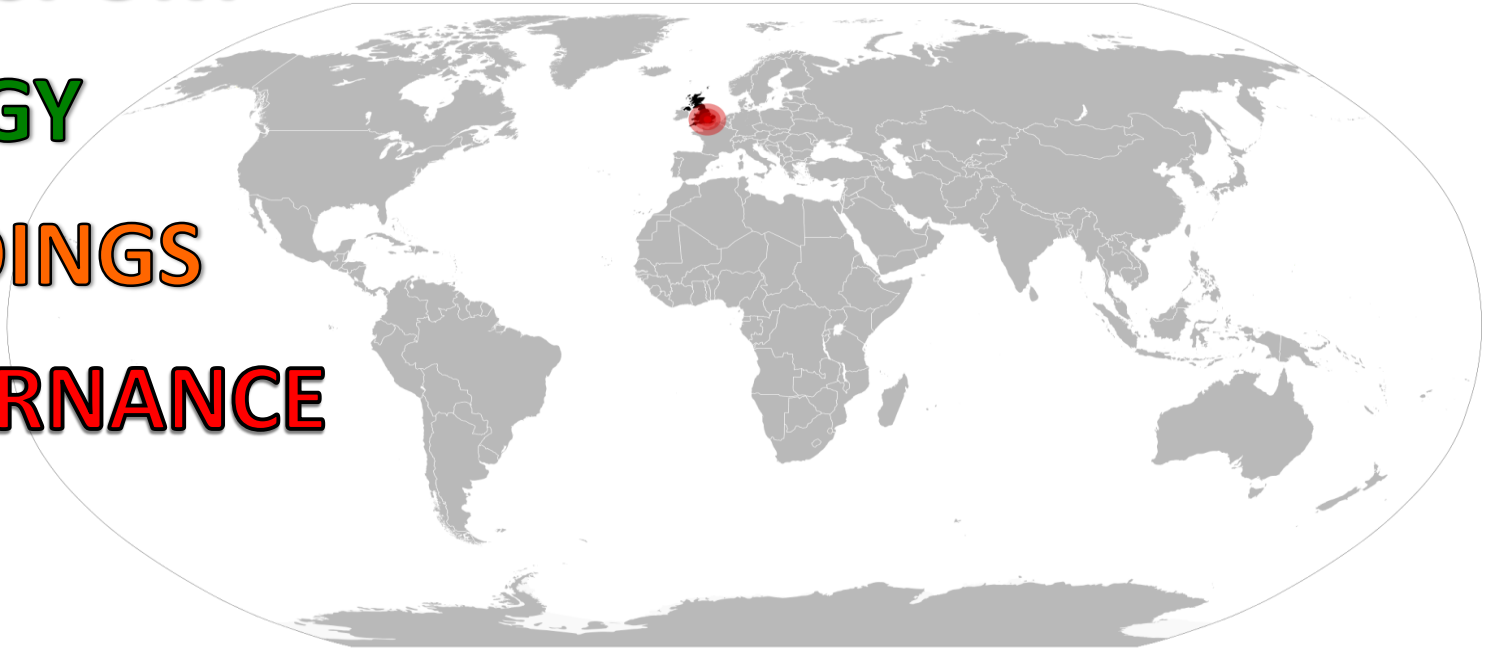








Image: Time Out London



Images: Y/N Studio



Image: Hyperloop



Image: Arup



Image: SmartCitiesWorld



Fossil fuels  
Global reserves/resources

Renewables  
Global energy potential per year

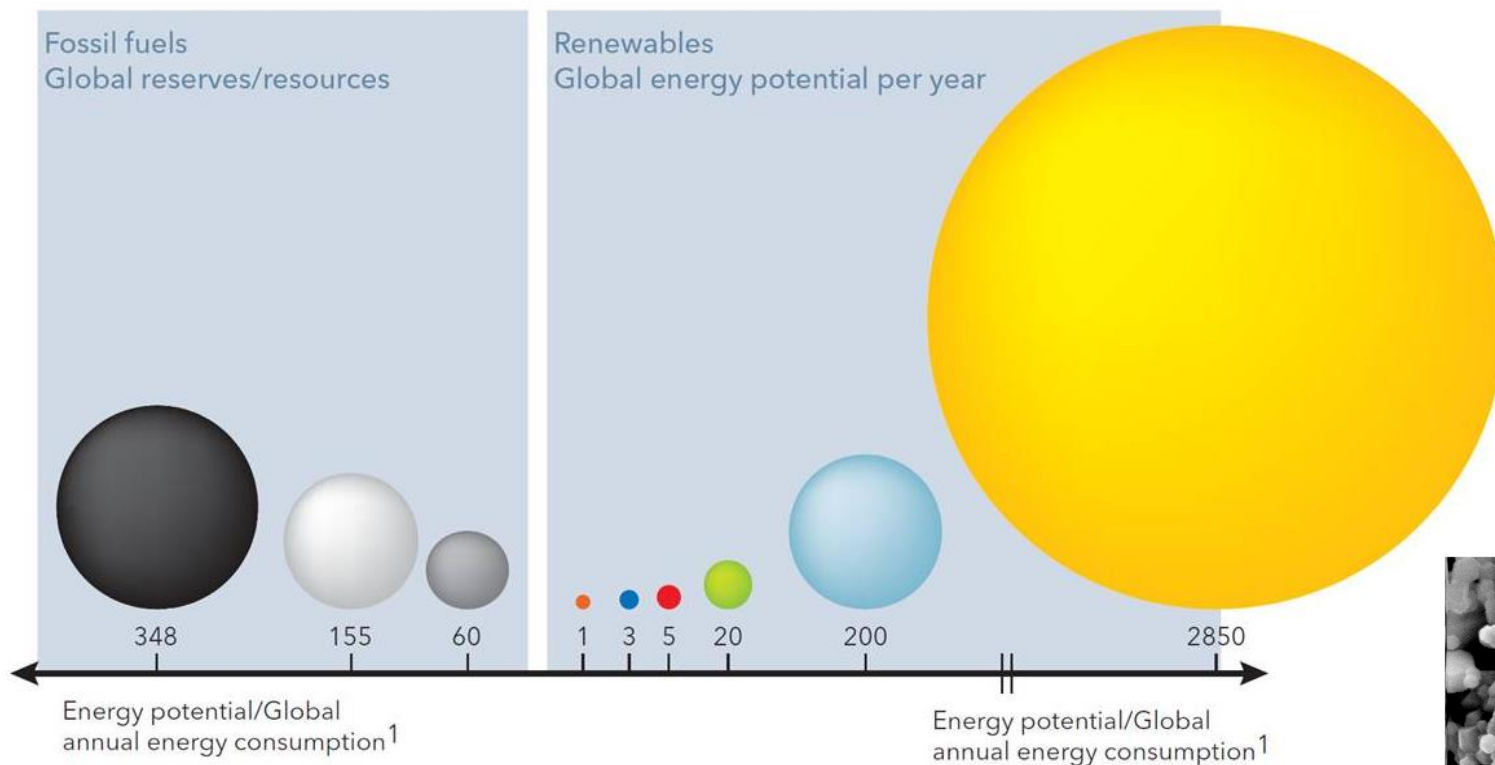


Image: Hessen Nanotech

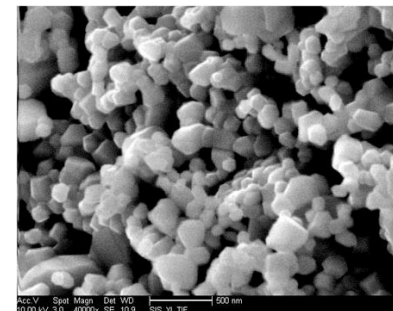




Image: Sarah Hall Studio

**2,500,000,000,000,000,000,000,000,000**

Brontobytes ( $10^{27}$ )

50 Billion

6.58/person





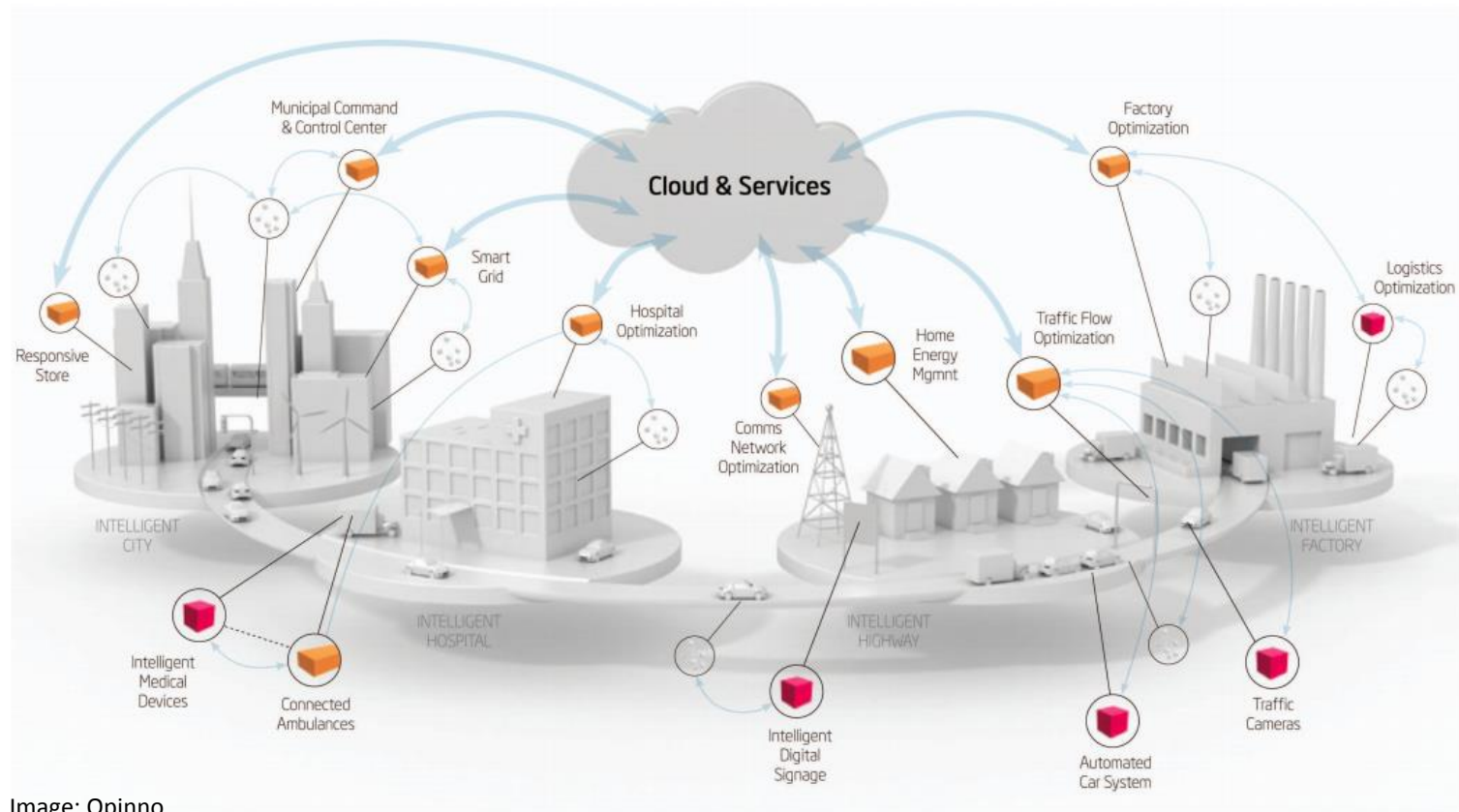
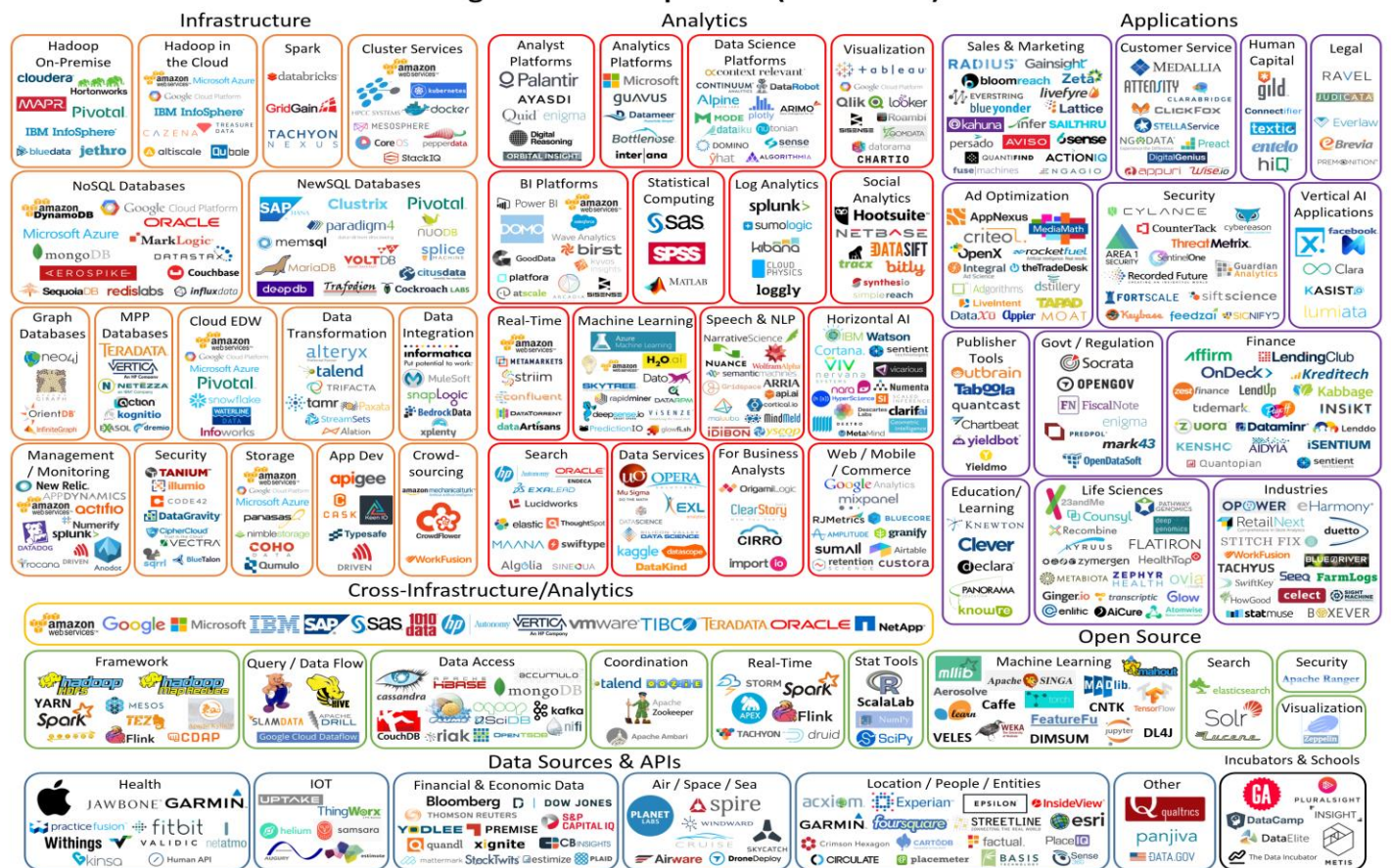


Image: Opinno



# Big Data Landscape 2016 (Version 3.0)



Last Updated 3/23/2016

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FIRSTMARK



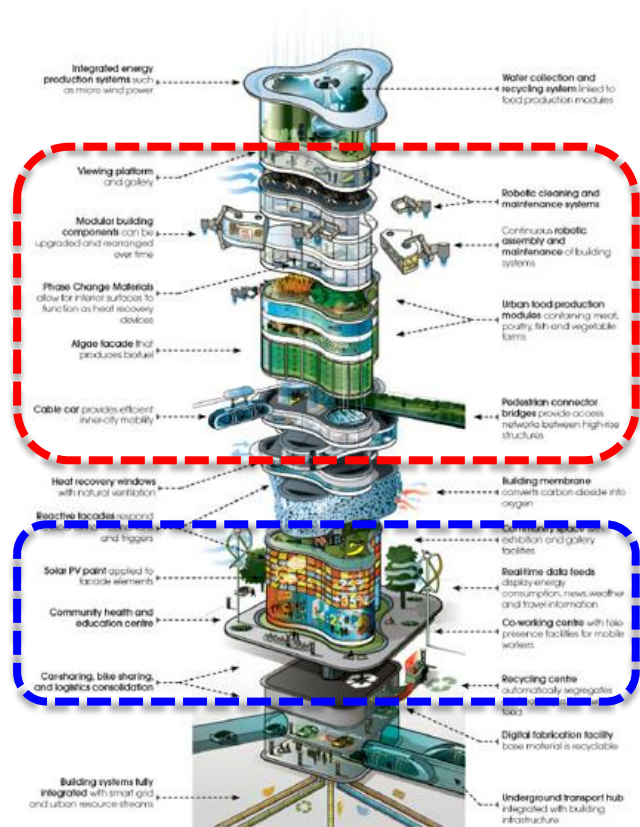
TISHMAN SPEYER



Images: Time Out London, Nine skyscrapers coming to London, 24<sup>th</sup> May 2015

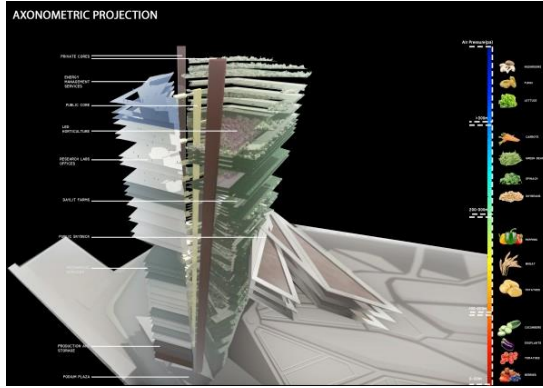






Images: Arup Foresight & Innovation





Images: Michael Khoo, RMIT University Melbourne



Image: Vincent Callebaut Architecture



Image: CNN



“A time will come when men will stretch out their eyes.  
They should see planets like our Earth.”

*- Sir Christopher Wren, 1660*