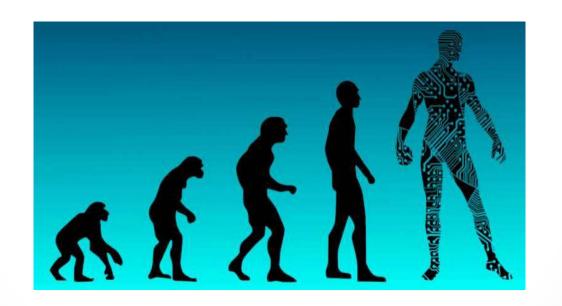


# 2050: To be human..in a tech dominated world





#### 2050

"... a future period during which the pace of technological change will be so rapid, its impact so deep, that human life will be irreversibly transformed.."

- Ray Kurzweil



#### I am not a futurist...





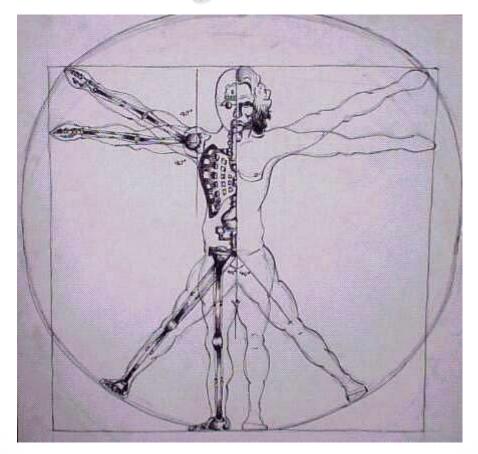








# Being human?



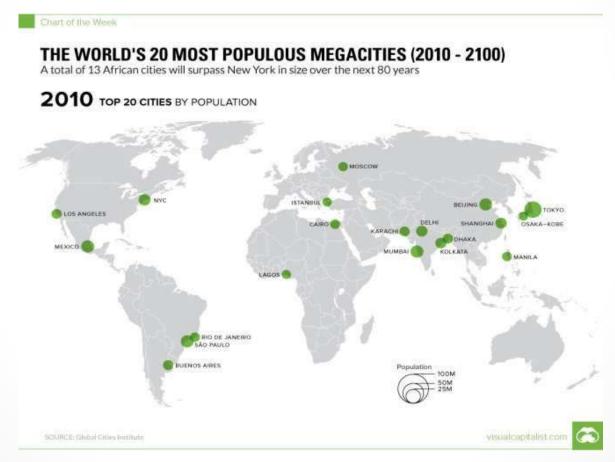


# 2050: Day in the life





## 2050: World is going to get smaller





## 2050: World is going to get smaller

|    | 201       | 0                        | 2025      |                          | 2050     |                          | 2075           |                          | 2100          |                          |
|----|-----------|--------------------------|-----------|--------------------------|----------|--------------------------|----------------|--------------------------|---------------|--------------------------|
|    | City      | Population<br>(millions) | City      | Population<br>(millions) | City     | Population<br>(millions) | City           | Population<br>(millions) | City          | Population<br>(millions) |
| 1  | Tokyo     | 36.094                   | Tokyo     | 39,880                   | Mumbai   | 54.297                   | Mumbai         | 57.135                   | Lagos         | 61.032                   |
| 2  | Mexico    | 20.117                   | Mumbai    | 33,26                    | Delhi    | 46.027                   | Lagos          | 51,622                   | Mumbai        | 52,277                   |
| 3  | Mumbai    | 20.072                   | Delhi     | 28.2 2                   | Dhaka    | 43.945                   | De <b>l</b> hi | 48,434                   | Kinshasa      | 48.832                   |
| 4  | Beijing   | 19.610                   | Beijing   | 26.5 80                  | Kolkata  | 42.137                   | Kinshasa       | 46.107                   | Karachi       | 44,434                   |
| 5  | Sao Paulo | 19.582                   | Dhaka     | 25,953                   | Karachi  | 39.328                   | Dhaka          | 45.498                   | Delhi         | 44,315                   |
| 6  | New York  | 19.441                   | Kolkata   | 25.8 9                   | Tokyo    | 39.195                   | Karachi        | 45,252                   | Dar es Salaam | 43.163                   |
| 7  | Delhi     | 17.015                   | Mexico    | 24.49                    | Kinshasa | 34.414                   | Kolkata        | 44.340                   | Dhaka         | 40.719                   |
| 8  | Shanghai  | 15.789                   | New York  | 22:201                   | Lagos    | 34.299                   | Dar es Salaam  | 33,493                   | Kolkata       | 40.570                   |
| 9  | Kolkata   | 15.577                   | Karachi   | 22.196                   | Beijing  | 29.903                   | Tokyo          | 32,393                   | Nairobi       | 33.921                   |
| 10 | Dhaka     | 14.796                   | Sao Paulo | 21.700                   | Mexico   | 29.052                   | New York       | 31.549                   | Kampala       | 33.051                   |

Sydney – 4.5M (2010), 5.3M (2025), 6.6M (2050) Melbourne – 4.1M (2010), 4.8M (2025), 5.6M (2050)



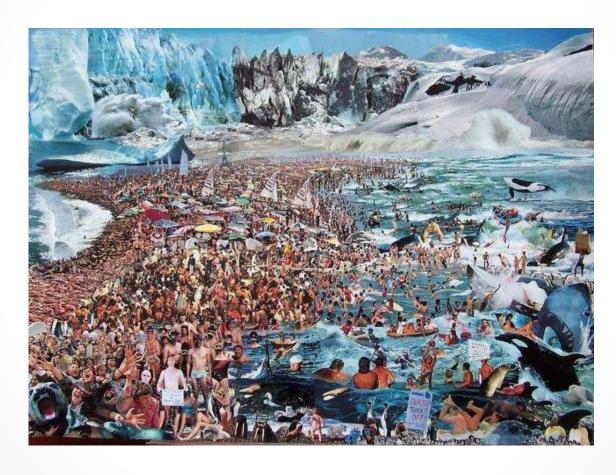
## 2050: New world order



|           | 2016 | 2050 |                          |  |
|-----------|------|------|--------------------------|--|
| China     | 1    | 1    | China                    |  |
| US        | 2    | 2    | India<br>US<br>Indonesia |  |
| India     | 3    | 3    |                          |  |
| Japan     | 4    | 4    |                          |  |
| Germany   | 5    | 5    | Brazil                   |  |
| Russia    | 6    | 6    | Russia                   |  |
| Brazil    | 7    | 7    | Mexico                   |  |
| Indonesia | 8    | 8    | Japan                    |  |
| UK        | 9    | 9    | Germany                  |  |
| France    | 10   | 10   | UK                       |  |

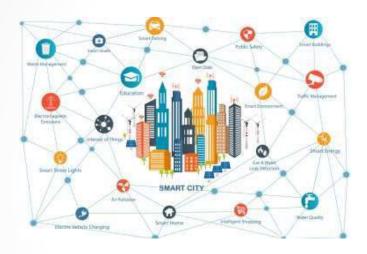


## 2050: Our environment





## 2050: A tech dominated world



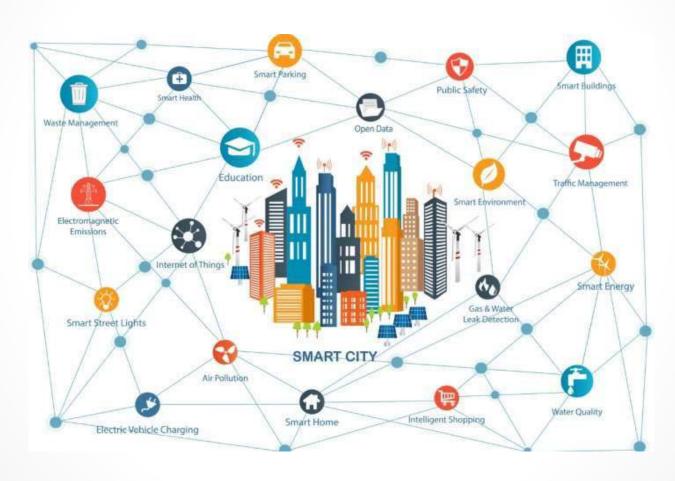








# 2050: Cities/Regions





## 2050: Cybernetic augmentation







# 2050: Age of AI



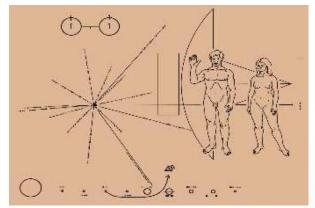


# The story of humanity











#### 2018: Our needs as humans



Secure by design

Physiological needs

air, water, food, shelter, sleep, clothing, reproduction



## 2050: Connection, contact, engagement

Before the next century is over, the Earth's technology-creating species will merge with its computational technology. There will not be a clear distinction between human and machine. – *Ray Kurzweil* 

Secure by design



# 2050: Where are we going to be?







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