



Koninklijke Landmacht



KIVI-lezing

Battlefield Internet & Darwin?

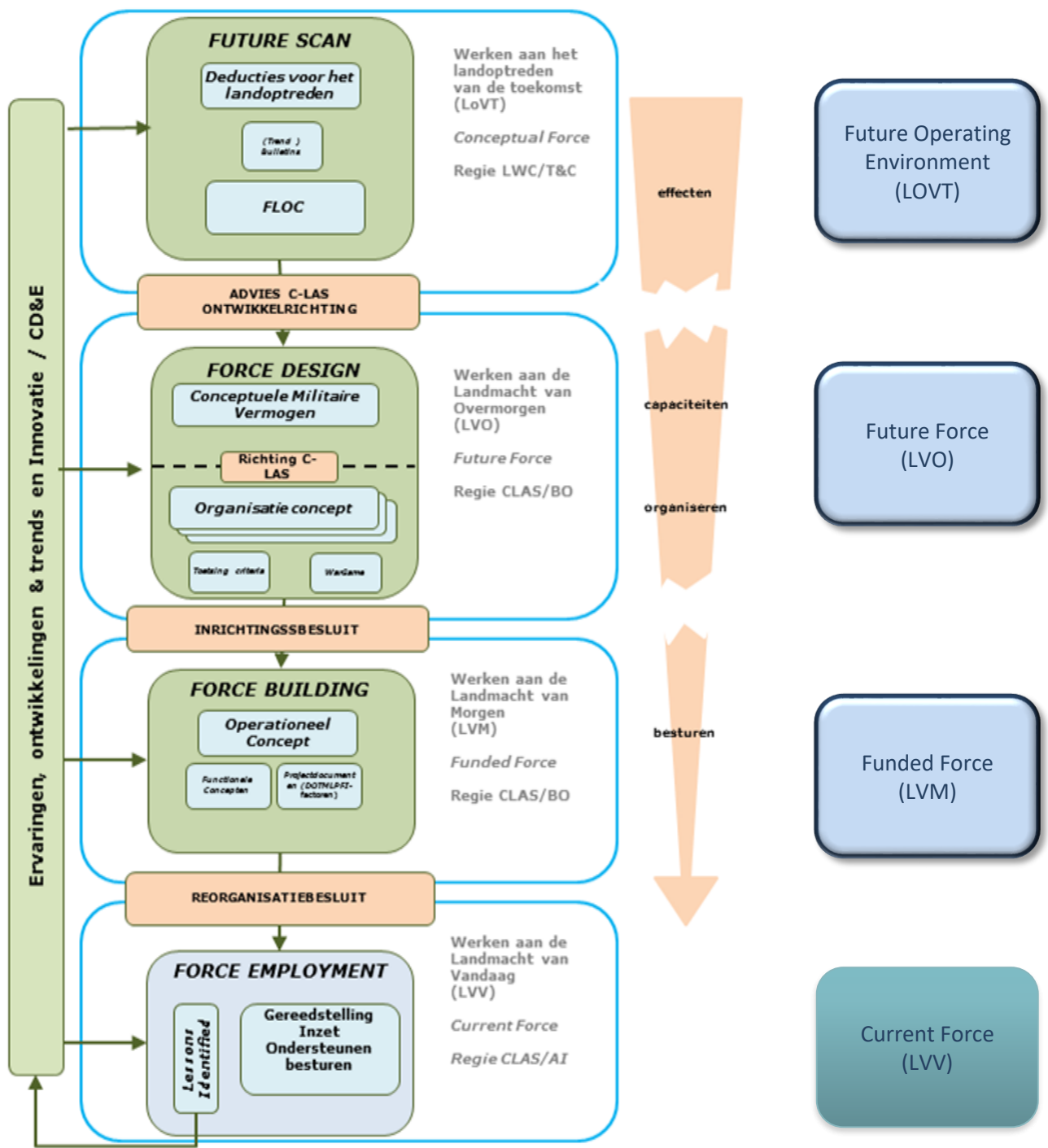
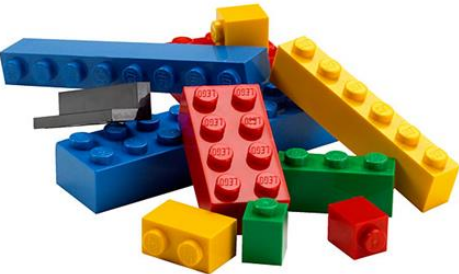
Koninklijke Landmacht

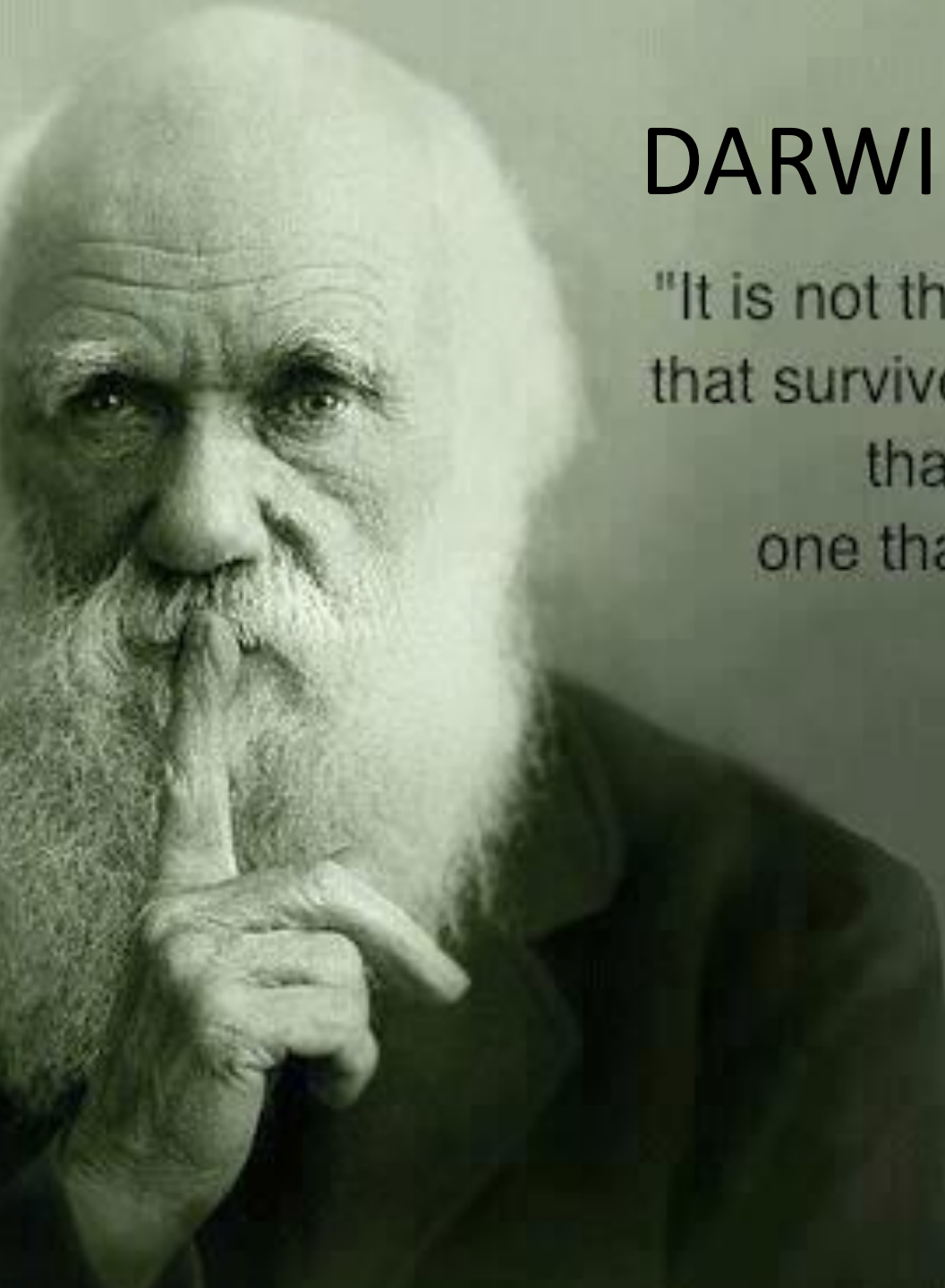
Land Warfare Centre

LKol B.E. de Heer

Hoofd Trends & Concepts

28 september 2017

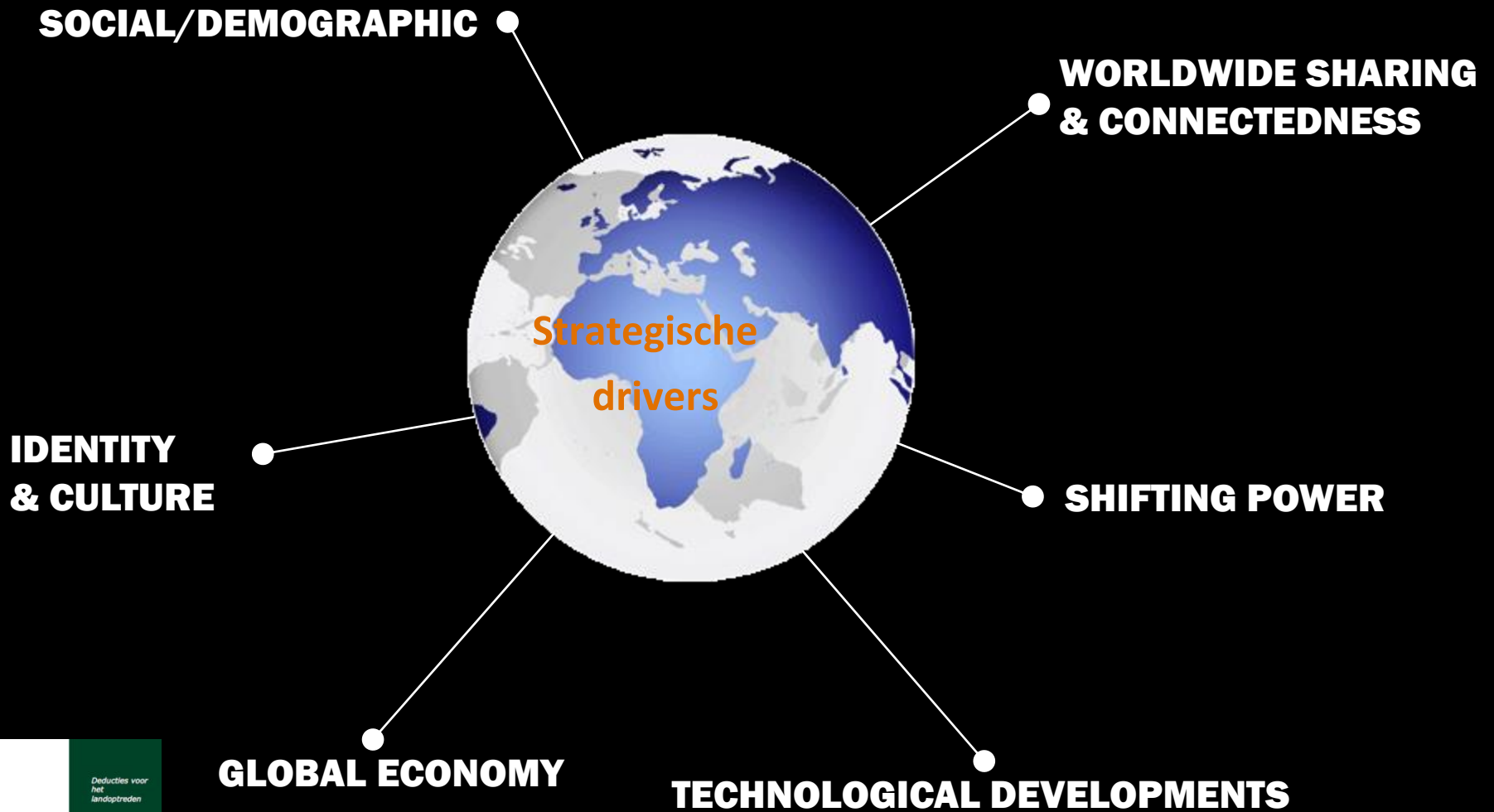




DARWIN ?

"It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is most adaptable to change".

Charles Darwin



Deducties voor
het
landoptreden

Edtie Silene





2045:
2 miljard
mensen
erbij

Groeiende
youth bulges

In **2050** leeft
meer dan
66%
bevolking in
steden

1.3 miljoen
mensen
migreren
wekelijks

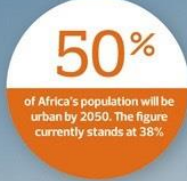
RISE OF THE MEGACITIES

According to the UN almost 180,000 people move into cities every day - an estimated 2 people a second



Set to rise to 2 billion by 2025
These 600 cities generate 60% of global GDP

In Africa and Asia, the urban population is expected to double between 2000 and 2030



TOP FIVE CITIES BY GDP IN 2025

- New York
- Tokyo
- Shanghai
- London
- Beijing

There are currently 23 megacities with populations over 10 million ... (from highest population to lowest)

- | | |
|---------------|-------------------|
| 1 Tokyo | 13 Buenos Aires |
| 2 Mumbai | 14 Los Angeles |
| 3 Mexico City | 15 Karachi |
| 4 New York | 16 Cairo |
| 5 São Paulo | 17 Rio de Janeiro |
| 6 Shanghai | 18 Paris |
| 7 Kolkata | 19 Rhein-Ruhr |
| 8 Delhi | 20 Osaka |
| 9 Beijing | 21 Manila |
| 10 Chongqing | 22 Moscow |
| 11 London | 23 Istanbul |
| 12 Dhaka | |

... by 2025 there will be 36

77%
of the Latin American population is urban and urbanisation rates keep rising

According to the UN World Urbanisation Prospects, Kinshasa in the Democratic Republic of the Congo is expected to see its population increase from

8.75m in 2010
to **15.04m** in 2025

Urban population, 2030 forecasts

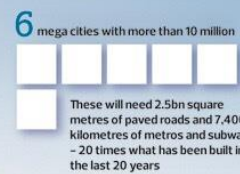


By 2030 China will have... **221** cities with 1 million or more inhabitants
and **23** cities with five million or more

TOP FIVE CITIES BY POPULATION IN 2025

- Tokyo
- Mumbai
- Shanghai
- Beijing
- Delhi

By 2030 India will have...



In 20 years, China's cities will have added 350 million people - more than the entire population of the United States today



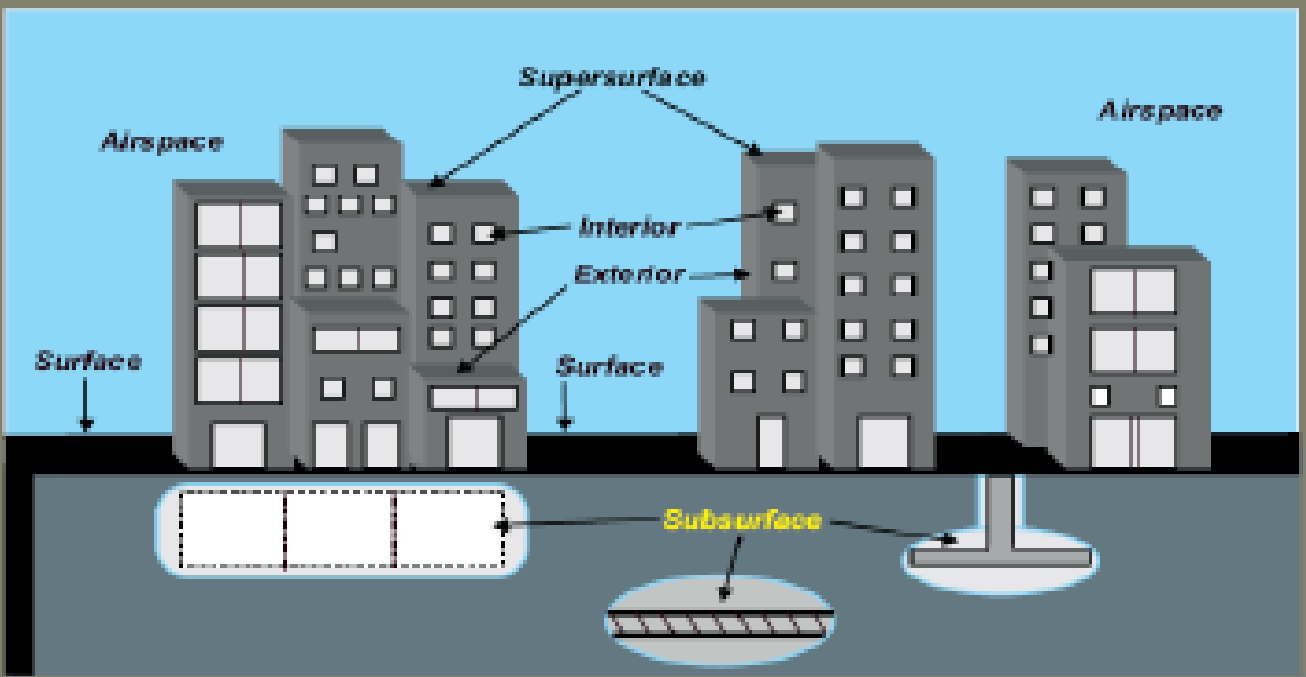
In 2030 numerous Indian cities will have larger economies than many countries. Mumbai's GDP is projected to reach

\$265bn



Chengdu in China's Sichuan province: the municipality of Chengdu's population has risen from less than 900,000 in 1950 to more than 14 million today including an urban population of 7 million

SOURCES: MCKINSEY GLOBAL INSTITUTE, UN PHOTO: JOSE FUSTE RAGA/CORBIS GRAPHIC: PETER QUERT



COURTESY: OLLEKAN JETIFOUS

Hyper-connectiviteit

Big Data

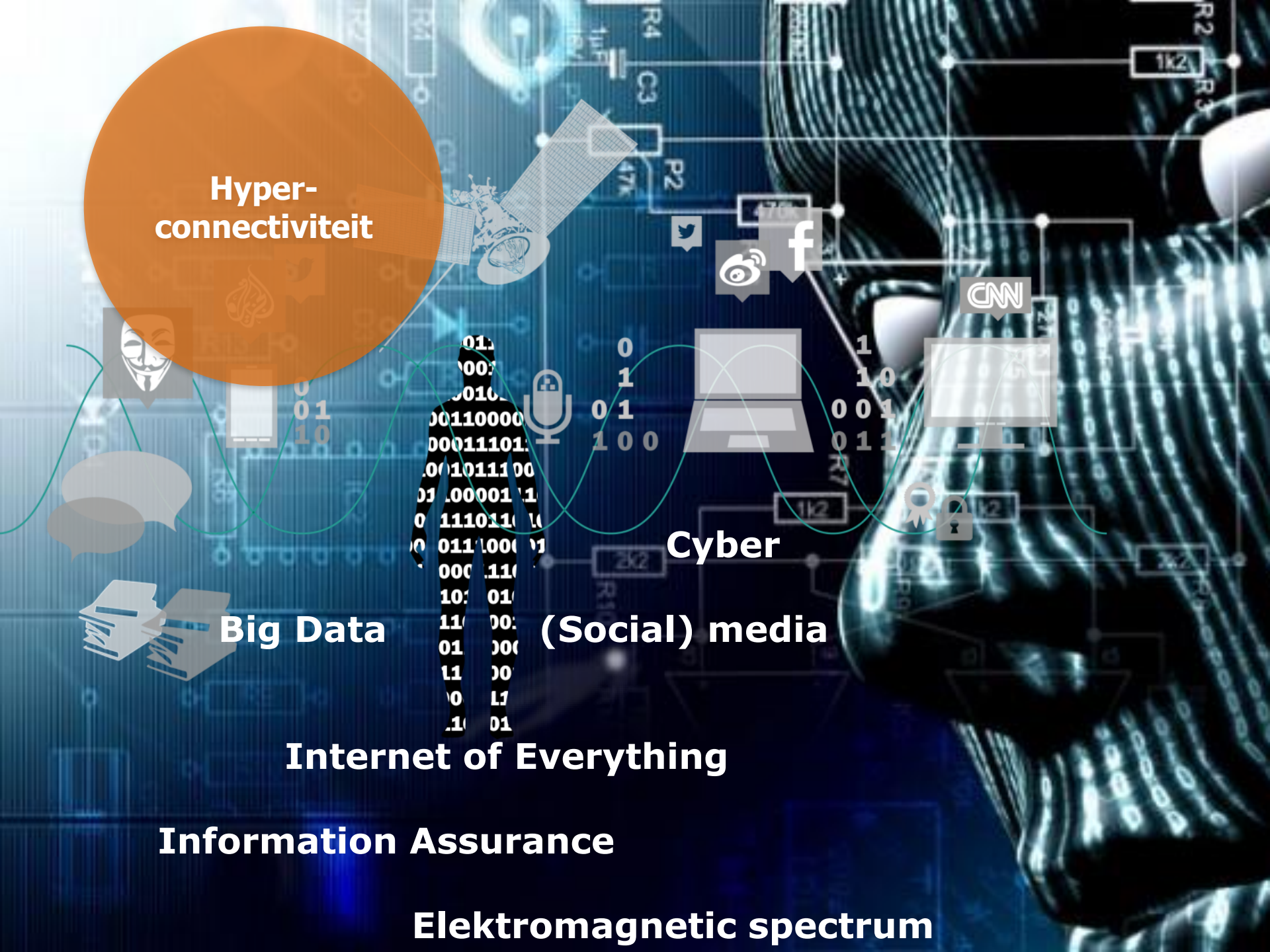
Cyber

(Social) media

Internet of Everything

Information Assurance

Elektromagnetic spectrum





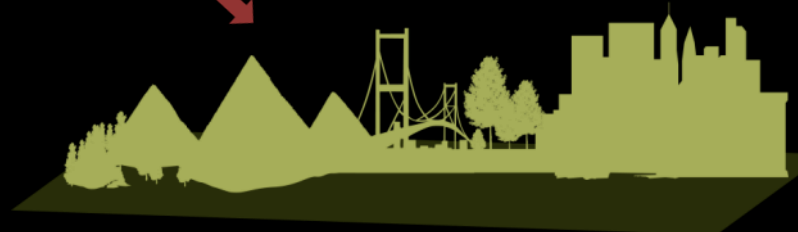
**Verschuiven
/ veranderen
machtscentra**

**Verschillen
in budgetten
&
proliferatie**

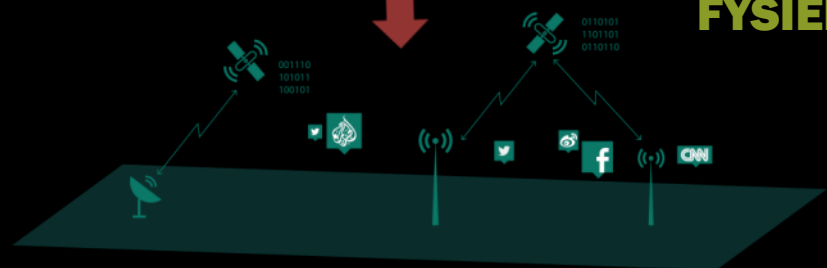
**Global
governance
&
Rol staat
onder druk**



MENSELIJK LANDSCHAP



FYSIEKE LANDSCHAP



INFORMATIE LANDSCHAP



ADAPT

RESIST CHANGE

EXTINCT

EVOLVE



Technology only \neq silver bullet

QUESTIONS

discover questions
where? how? why? who?
asking questions challenge
clues
ask who? discover
when? knowing investigation
clues how why? ask
knowing investigation
what?

