

Did someone say
Teleportation?

**The Power of New
Spatial Narratives**

Derek Woodgate

the
Futures
Lab

An aerial, high-angle photograph of a city skyline, likely Chicago, featuring a prominent river (the Chicago River) and a bridge (the Lake Shore Drive Bridge). The buildings are tall and modern, with some showing signs of construction or renovation. The sky is overcast, and the overall tone is somewhat somber due to the grey and blue color palette.

Fishing the Data Lake

Vehicle stock in China expected to increase by almost 50%

In 2030, more than one in three kilometres driven will be 'shared'

40% of the mileage driven could be done in autonomous vehicles in 2030

Personal mileage could rise by 23% in Europe, 24% in the US and 183% in China

55% of cars set to be electric in 2030

World GDP to double by 2030

Reduction in holiday and business travel

Air passenger traffic to double in 15 years;

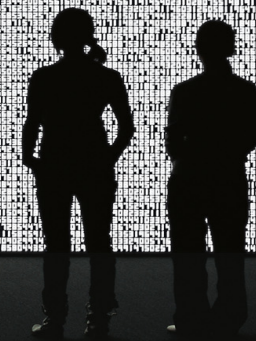
Air freight to triple in 20 years; and

Port handling of maritime containers worldwide to quadruple by 2030.

Sources: OECD, PWC, World Bank

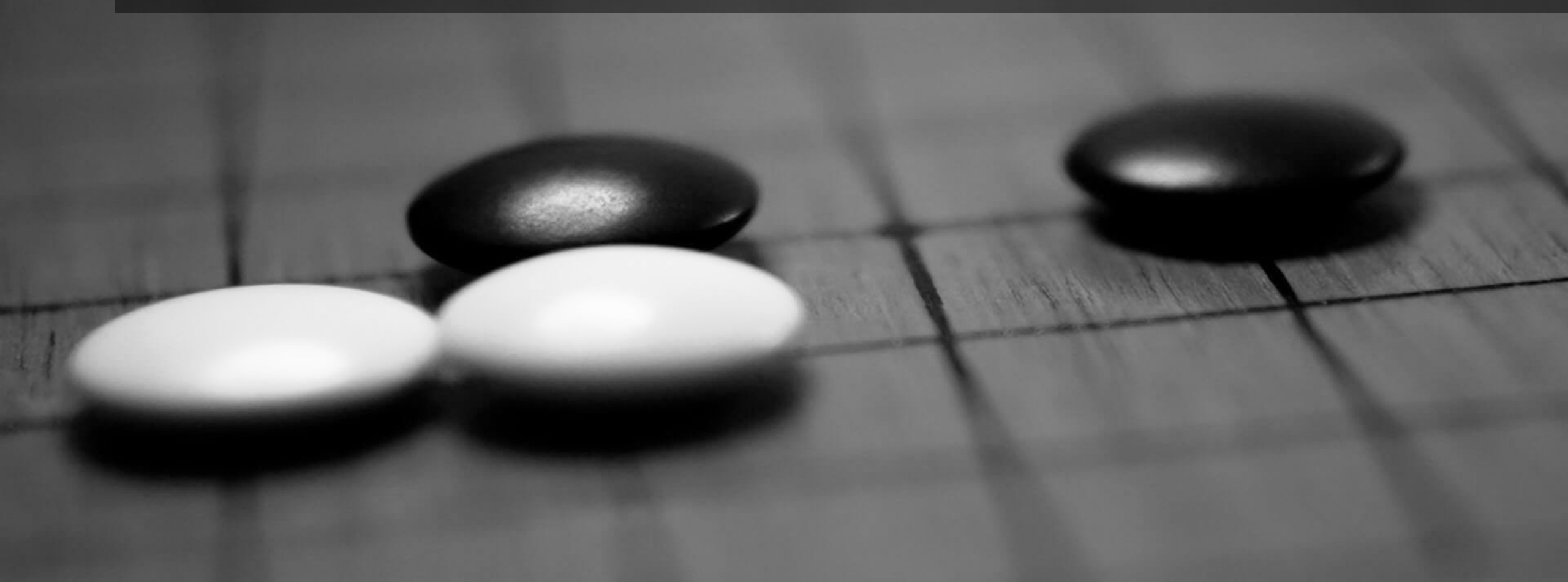
Connectivity between cities

- Extra 2 billion city dwellers by 2050
- 70% of population will be urban by 2040



It is not just **numbers**

...even the potential of **DeepMind**?



No human intervention : No historical data

...or **emerging** technologies

Hyperloop

Space travel

Driverless pods

MAGLEV or Skylon

Multimodal vehicles

Smart maritime

Self-learning AI

Supercavitation

IOT connectivity

VR/AR simulated training

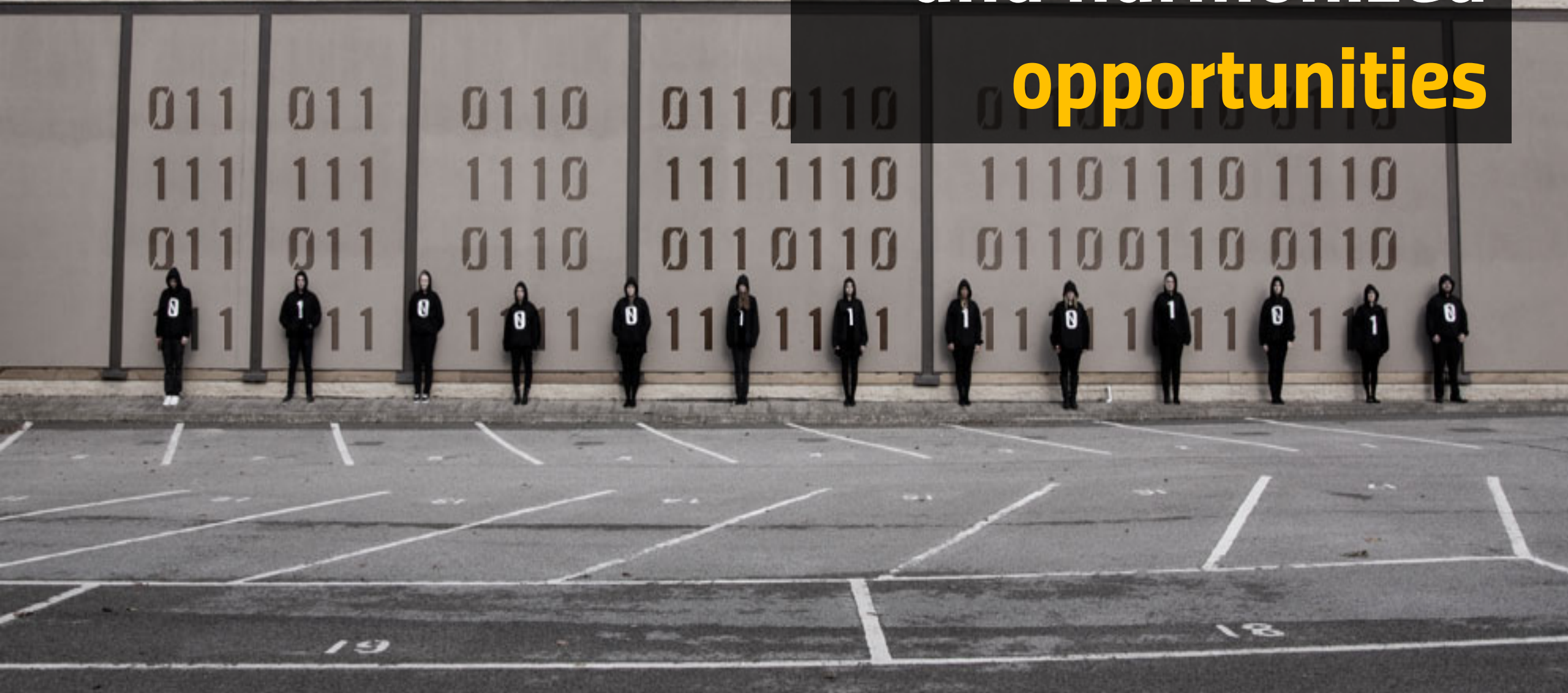
Plastic roads

Self-healing surfaces



Identify disruptive
and harmonized

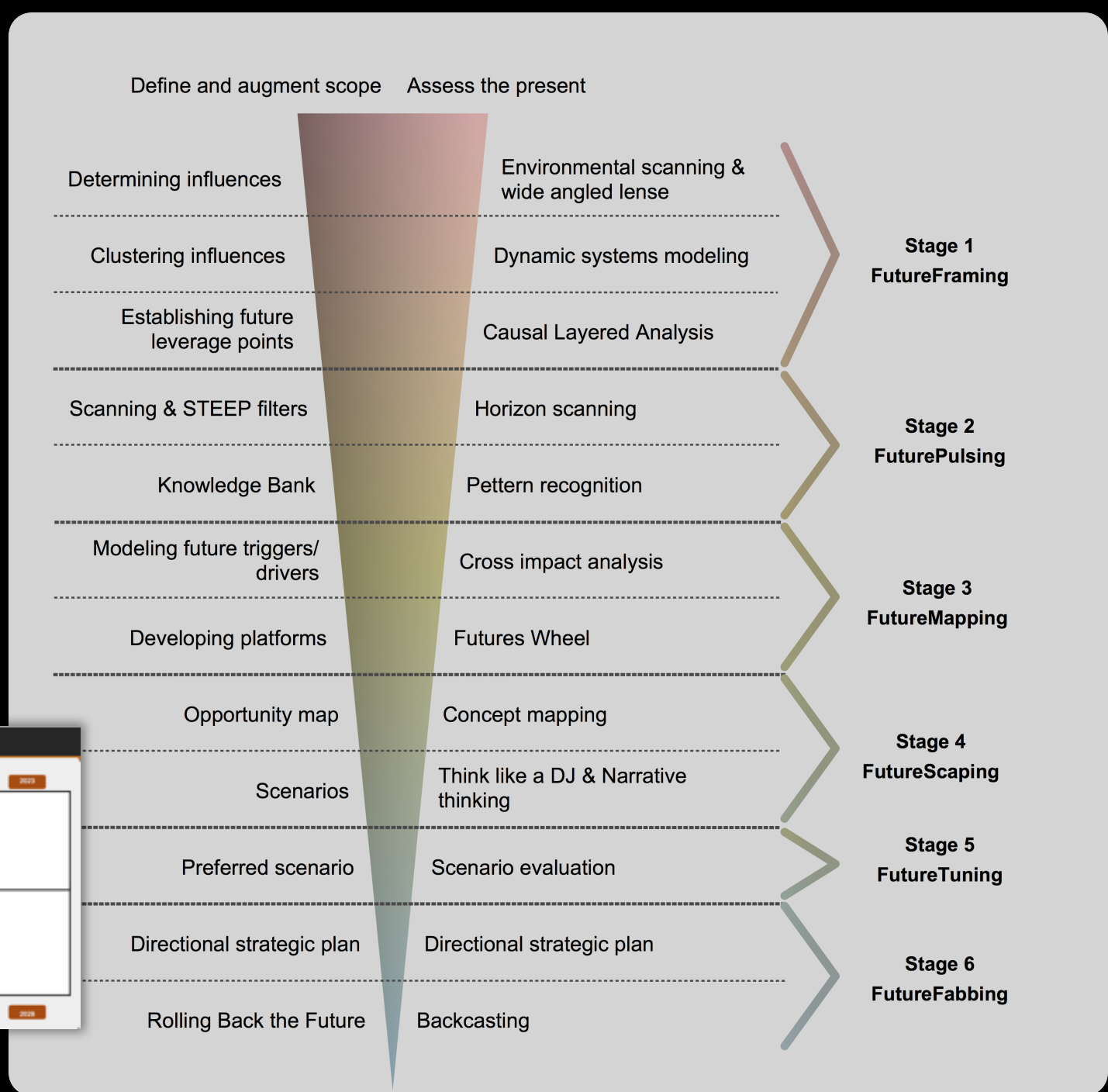
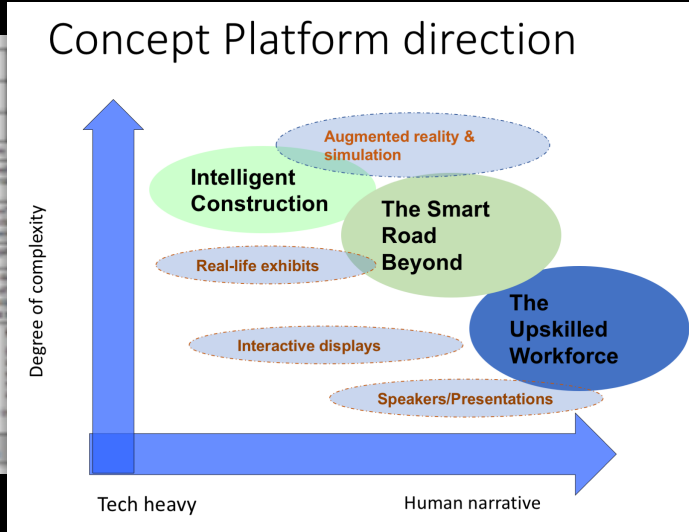
opportunities



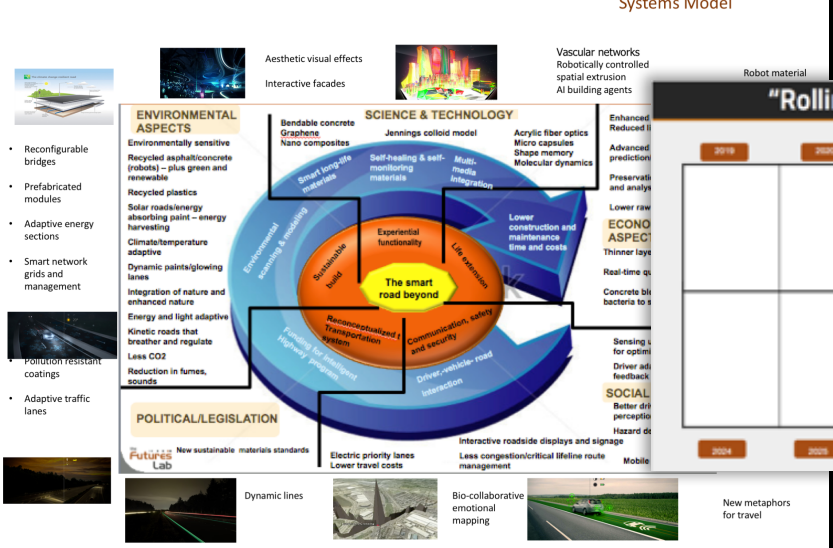
Creating the future

Leveraging discontinuity

Title	Aligning the future of work from 'learn to work' to 'work to learn'
Event	Workforce Dev. 20-21
EFMD Category	Work, Learning, Position
Type	Work event, New trends, New work
Lead description of the role	A thought leader in the world of 'Future Work' by being part of the 'work to learn' movement. The role involves communication, writing, and learning.
How could the future be different as a result?	Learning skills from specific activities 'learn to work' that are fundamental to work. These skills are transferable, and eventually 'to work with' that work.
What are the potential implications for...?	(Un)ethical issues: Work structure
General office (lead role)	Learning: Writing
Headline, role or research content	The concept that a learning-based or content-based structure is a key to a high performing organization of tomorrow.
Author	Robert Smith



Directional opportunities framework



A high-contrast, black and white silhouette of a person, likely a DJ, standing behind a desk. The person is facing right, with their hands on a piece of equipment, possibly a mixer or laptop. The background consists of horizontal blinds, creating a striped pattern of light and shadow. The overall mood is artistic and focused.

Think Like a DJ

Nano : Bio : Robo : Neuro



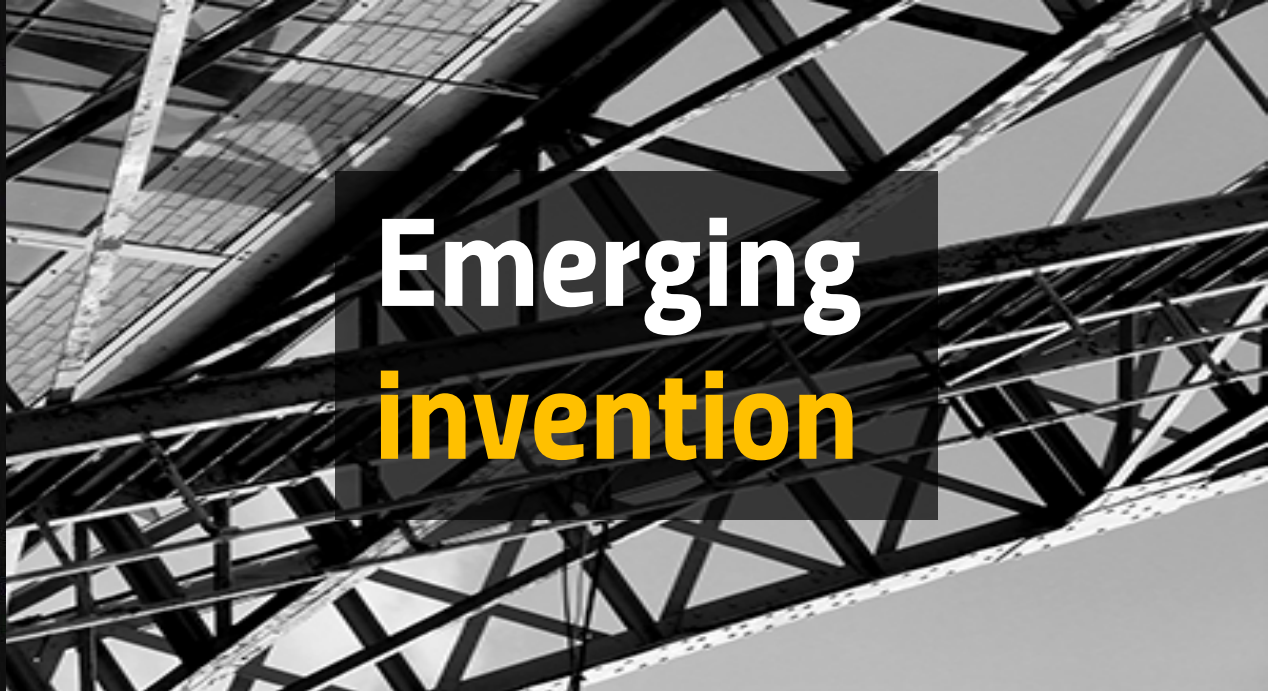
Power play



Socio-cultural change



Alternative visioning



Emerging invention

The transformative dynamics and dimensions



Rewriting the
transportation
narrative

New **economies** and
power paradigms

Systems rethinking and
self-directed intelligence

The augmented **Self**



1.

Rewriting the transportation narrative

Physical : Virtual : Cognitive

The perfect vs. imperfect **canvas**



Leveraging **disruption**



Future uses and **values**



Routes : Navigation : Transport : Goods : Safety : Security : Delivery : Legislation

A road of new **experiences**

A dark, winding road is shown from a low angle, receding into the distance. The road is illuminated by several bright, glowing light trails that curve and swirl, suggesting motion and speed. The background is black, making the white and yellow light trails stand out prominently.

Curated value

The driver, the vehicle,
the **roadway**

Where media, design,
technology, safety,
nature, energy and you
converge!

Space **ownership**

A narrative of
spirals and **layers**



Smart layering

A futuristic, sleek, silver aircraft with a transparent cockpit and a long, pointed nose is flying over a mountainous landscape. The aircraft is positioned in the upper left quadrant of the image. The background features a bright sun in the upper right corner, creating a lens flare effect. The overall scene is set against a clear sky with some light clouds.

Societal services

Cyber infrastructure

Physical ecosystem

Unmanned Vehicles

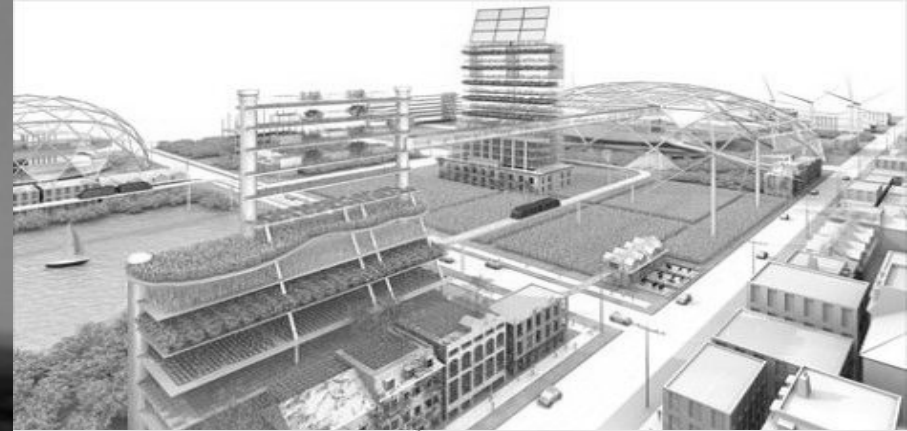
A new universe of
multimodal
transporters



Ocean city with
an **energy**
factory



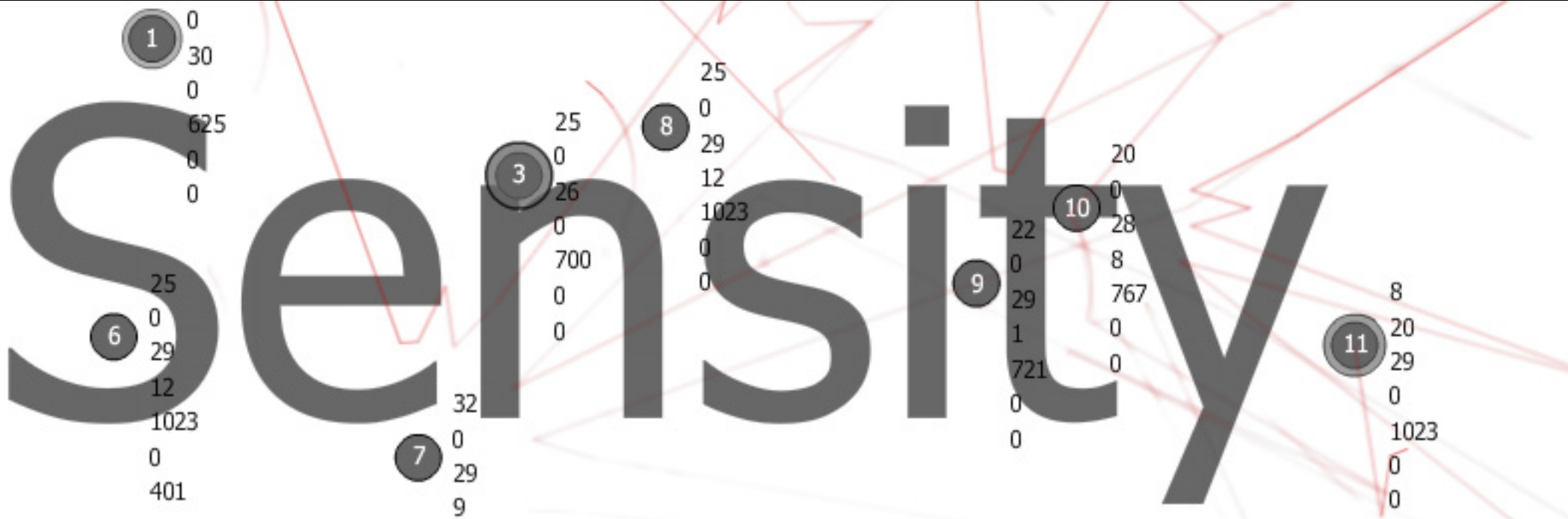
A **visual** narrative for **sustainable** farming



Rural connectivity



Space as poetry



Immersive aesthetics

Unfinished memories

Personal ambience

Belongingness



2.

Systems Rethinking and self-directed intelligence



Infrastructure Vision 2050 Challenge




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EQUIPMENT MANUFACTURERS



The City as **Knowledge**

Collection, extraction, transmission

Grids, sensor
networks
& **IoT**



Spatial interaction

New roles for
kinetic architecture

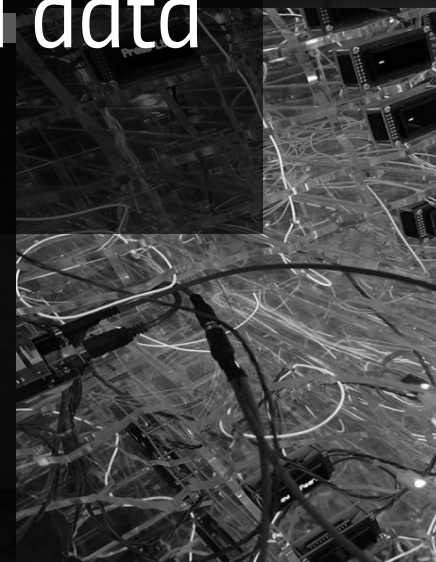
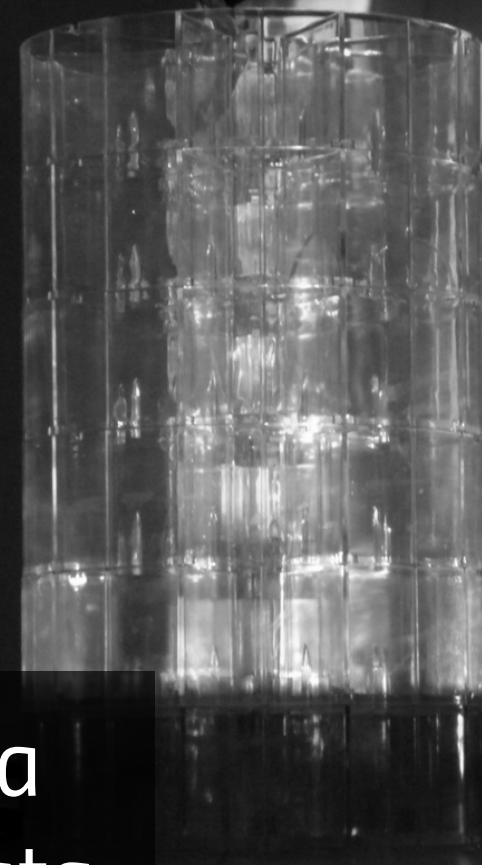


From Smart to Social

CCTV and Art as third eye surveillance



Data sculptures as a
socialization and data
collection tool





Simplifying diversity

Smart manufacturing meets
intelligent distribution networks

Car free cities

DE CROSS-DOCK

Een multimodale platform voor productie, opslag, gerobotiseerde overslag en distributie.

Hier worden stromen in grote volumes naar kleine en frequente ladingen, in kleine, stille en schone voertuigen de Last-mile vervoerd. Als de bulk in de Cross-Dock komt, wordt in real-time een optimale route van de stadsnetwerk (water, weg, rail of lucht) bepaald, waardoor de goederen de stad in gebracht worden. De route wordt op basis van specifieke factoren - afstand, snelheid, tijdstip, frequentie, volume, urgentie en waarde/kosten - automatisch geselecteerd.



Accelerated intelligent construction

Complex surfaces

In situ resource utilization

Specialized robots
(snake, clusters)





The automated road

In-built vehicle guidance infrastructure and co-operative vehicle-highway system

Weather warning systems linked to automated sensors

Temperature, moisture, pavement condition monitoring and road to asset management system communications

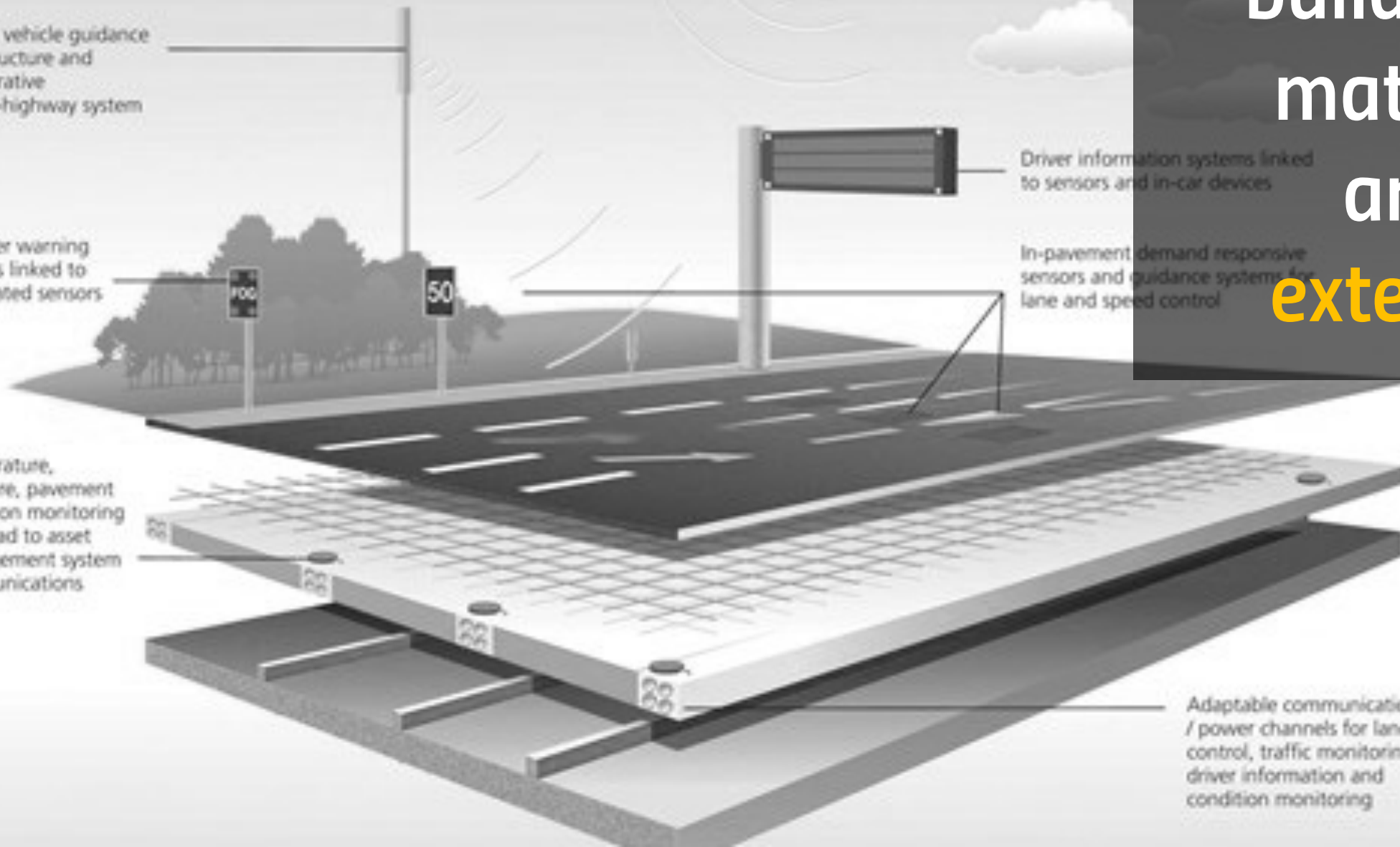
Satellite and radio communications to road infrastructure and drivers

Driver information systems linked to sensors and in-car devices

In-pavement demand responsive sensors and guidance systems for lane and speed control

Adaptable communication / power channels for lane control, traffic monitoring, driver information and condition monitoring

Sustainable
build, new
materials
and **life**
extension

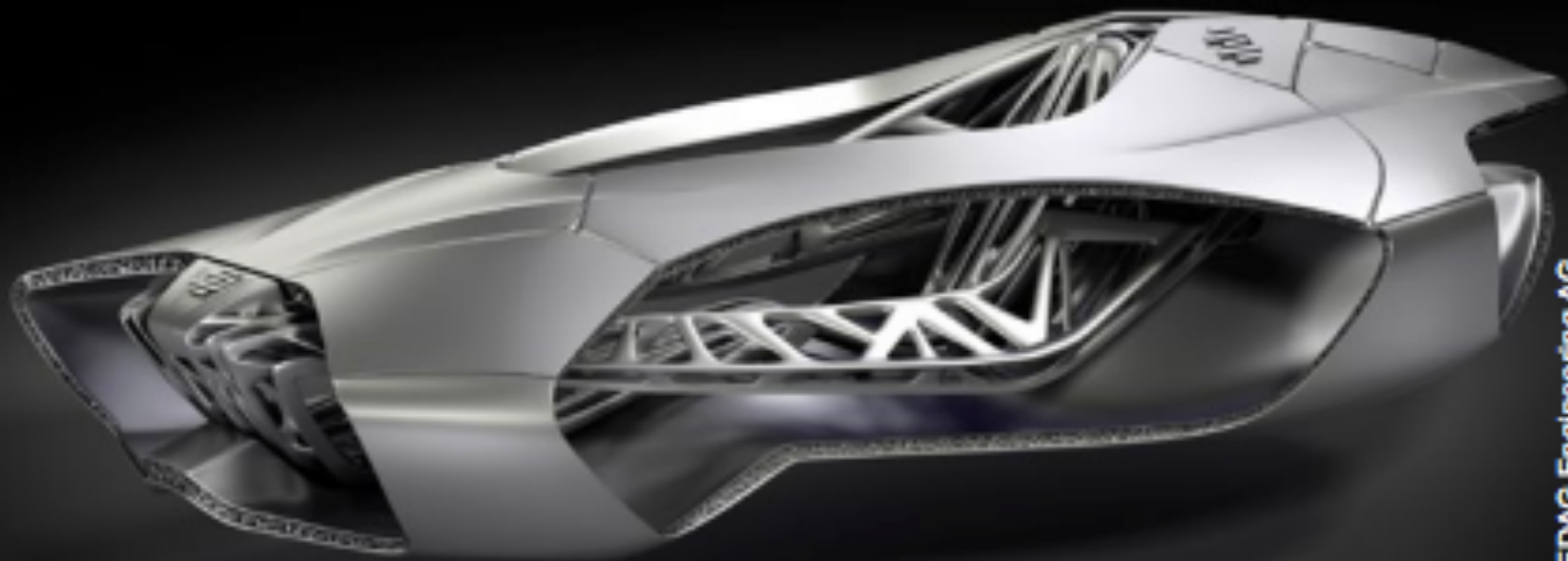


Lo tech – recycling, prefab



3D printing of machines and components

- Accelerated build
- Lighter & faster
- Better aerodynamics
- Flexible shapes
- Greater efficiencies



Self-directed intelligence





3.

New
economies
and power
paradigms

Beyond conflict:
The Nemesis
Machine

A new **power**
paradigm



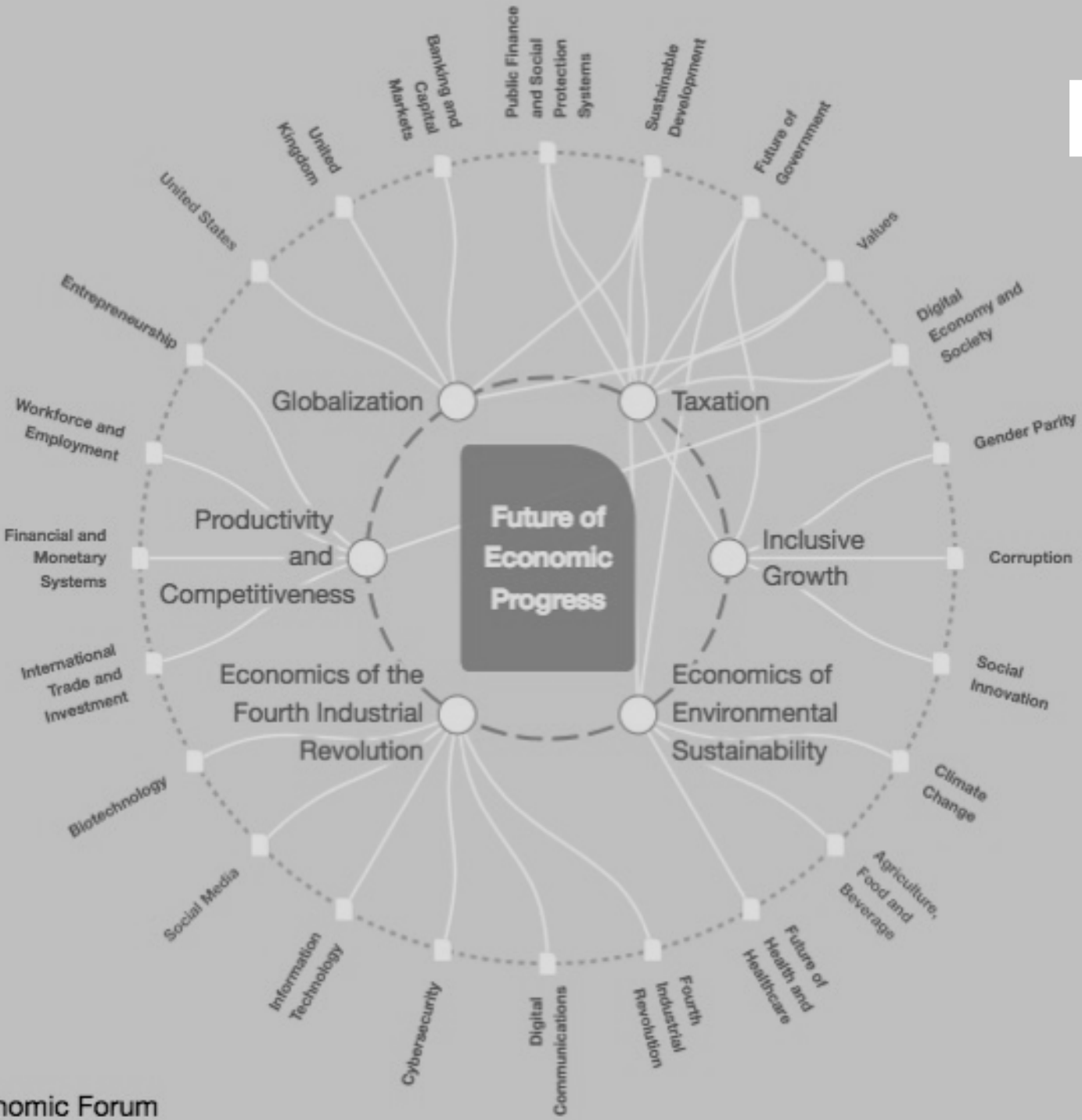
Meso and meta economics

Holistic

Living

Deep

Human



Body 0100001001101110110010001111001

Workers & bots of the world unite

No-collar workforce

Humans and machines in one loop—collaborating in roles and new talent models

Mutual intelligibility

Role reconfiguration

HR modeling

Roboethics

Upskilling & Simulation



Transformative IoT meets full immersion

4.

Remix Lifestyle

Performative
Identities
Archetypes
Values &
signifiers

Social-cultural
change



The image consists of four vertical panels arranged from left to right. Each panel shows a grayscale image of a human face, progressively revealed through a grid of white dots on a black background. The first panel shows the most obscured face, while the fourth panel shows the face almost fully visible. The text 'The New Spectacle' is overlaid on the top right, and 'A panopticon of the Self' is overlaid on the bottom left.

The New Spectacle

A panopticon of the Self

Cyborgs, Transhumans & **Superhumans**

What you experience in your imagination is the same as you experience in the real world...

Magic meets Science

Derek Woodgate

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