

2D, 3D, 4D, 5D...

URBANISM NEXT EUROPE
2021



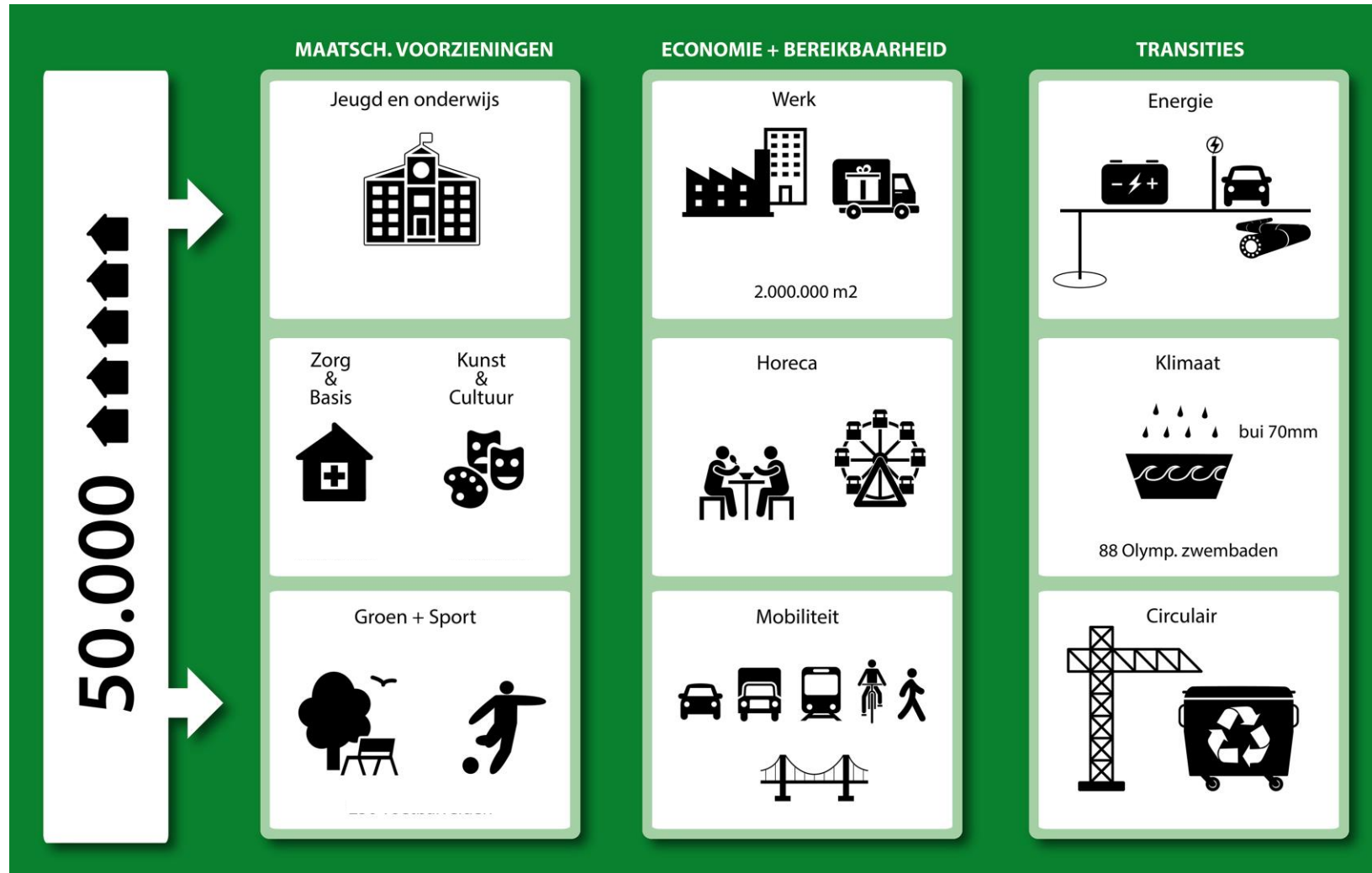
Adding more dimensions to planning

Marije ten Kate - Head Urban Planner



**Gemeente
Rotterdam**

Urban growth: diverse and new space claims



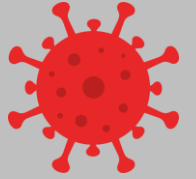
-Sectoral claims add up to more than available space within the boundaries of Rotterdam

-Transitions affect old and create new space claims

SO we need to plan smarter!

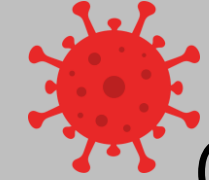
#How?

The city changes by digitalization: 'zAPP city'



- Social use patterns: less place-dependent and more temporary
- use of space: in places, on moments and in ways that are unexpected
- Location, location, location >>> reputation, reputation, reputation ★★★★★





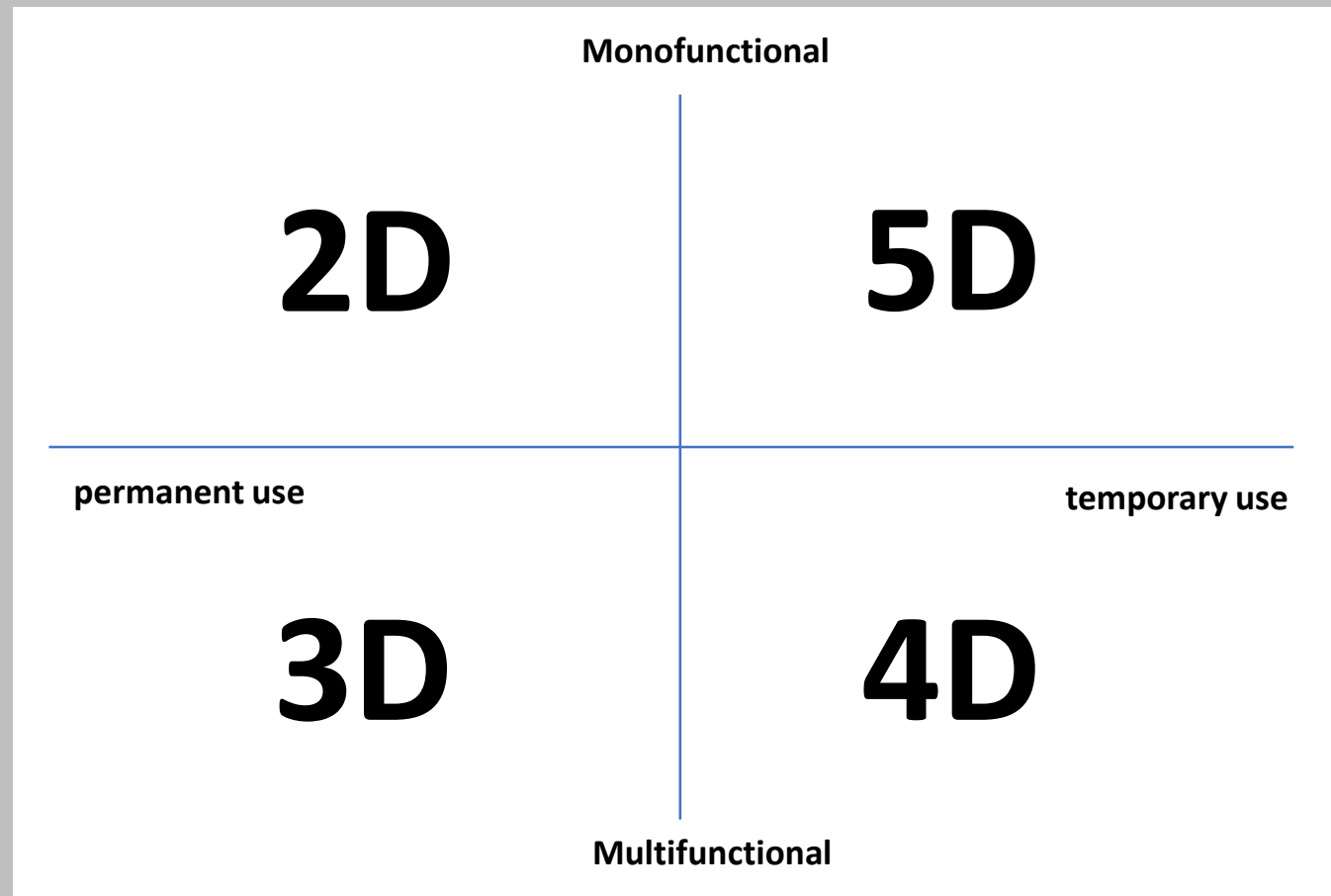
COVID as accelerator, big impact on the use of space



THE OFFICE RESET

DE INVLOED VAN COVID-19 OP DE WERKOMGEVING

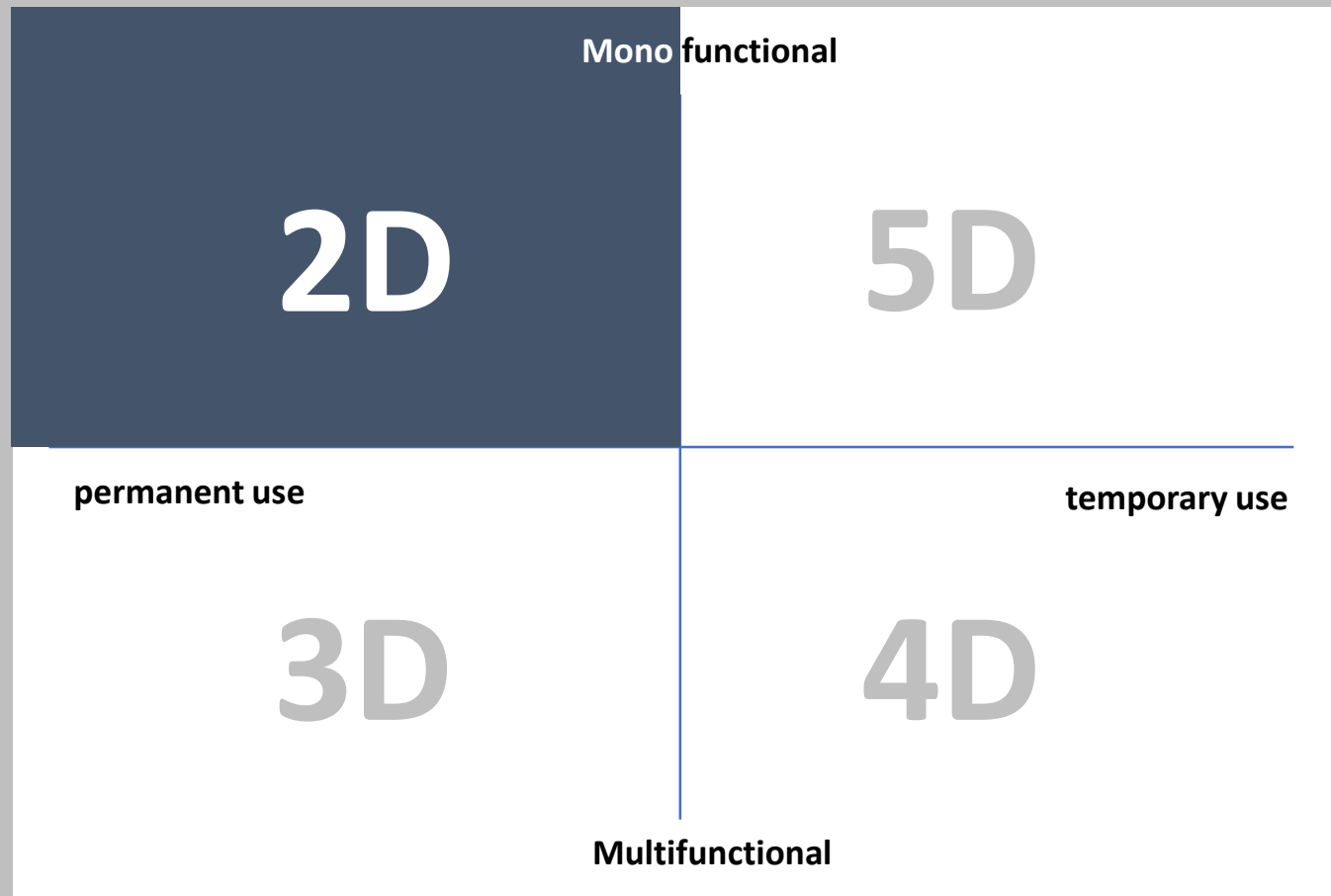
Broadening the spatial planning palette: adding 4- and 5-D planning



Organizing principles for space usage

2D: spatial planning in the 2-dimensional space

Permanent allocation of defined functions in a fixed place



Organizing principles for space usage

2D: spatial planning in the 2-dimensional space

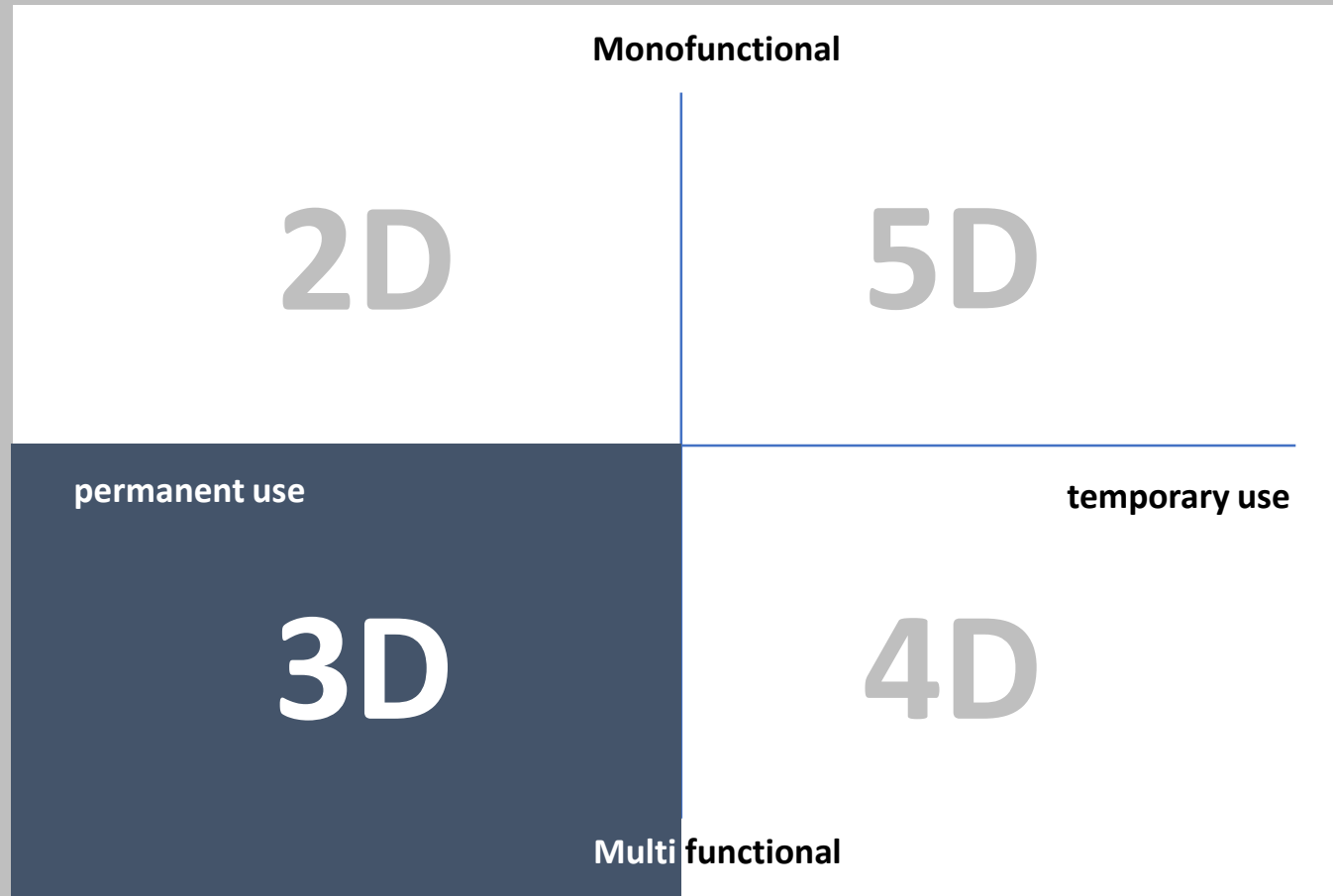
Permanent allocation of defined functions in a fixed place

B	Bedrijf
B-NB	Bedrijf - Nutsbedrijf
CO	Cultuur en ontspanning
G	Groen
M	Maatschappelijk
N	Natuur
R	Recreatie
S	Sport
T	Tuin
V	Verkeer
WA	Water
W	Wonen

- Legally fixed in a zoning plan
- Based on traditional planning-indexes and settlement logic

3D: stack, combine and mix

looking for 'magic mix'



Organizing principles for space usage

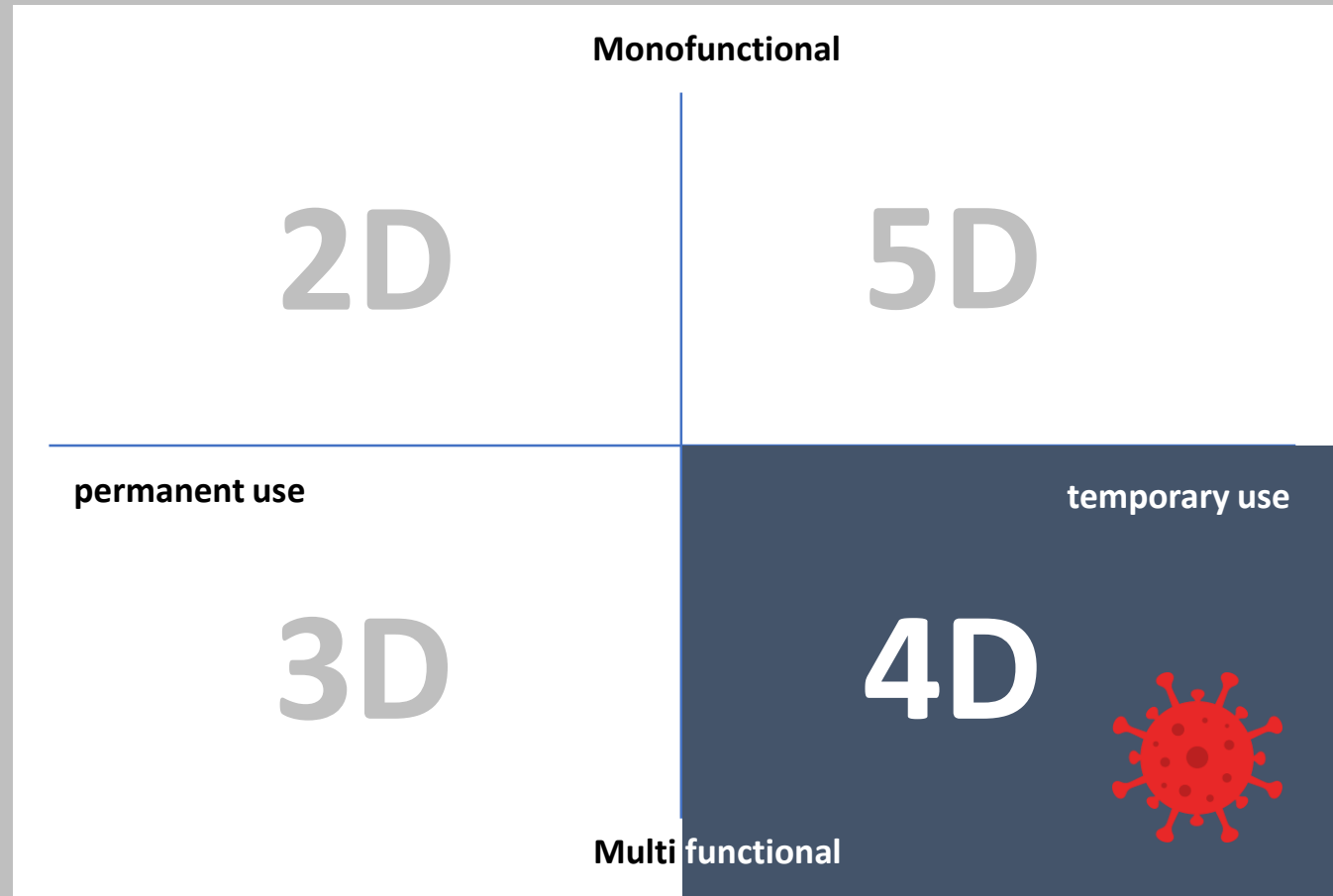
3D: stack, combine and mix

looking for a 'magic mix'



4D: programming in time

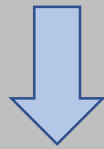
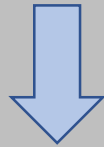
fixed location, alternating uses



Organizing principles for space usage

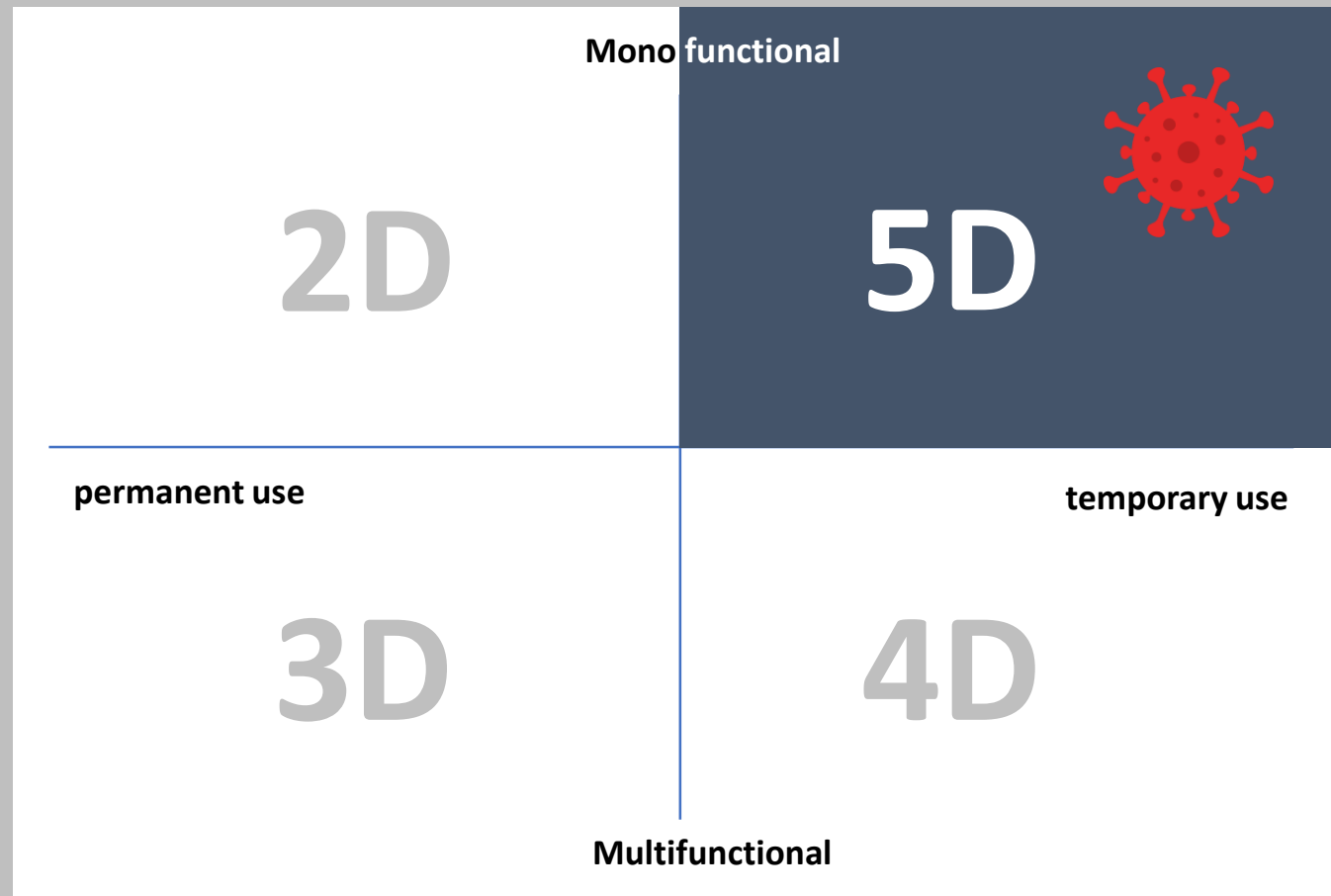
4D: programming in time

fixed location, alternating uses



5D: distribution via digital platforms

fixed functions, changing locations



Organizing principles for space usage

5D: distribution via digital platforms

fixed functions, changing locations

The Airbnb logo, featuring the word "airbnb" in a lowercase, rounded, pinkish-red font.The iens logo, which consists of the word "iens" in white lowercase letters inside a red speech bubble shape.The SPACES logo, featuring a black hexagon icon followed by the word "SPACES." in a bold, black, sans-serif font.

VERDIEN MET JOUW PARKEERGARAGE

Inkomsten genereren uit onbenutte parkeerplaatsen

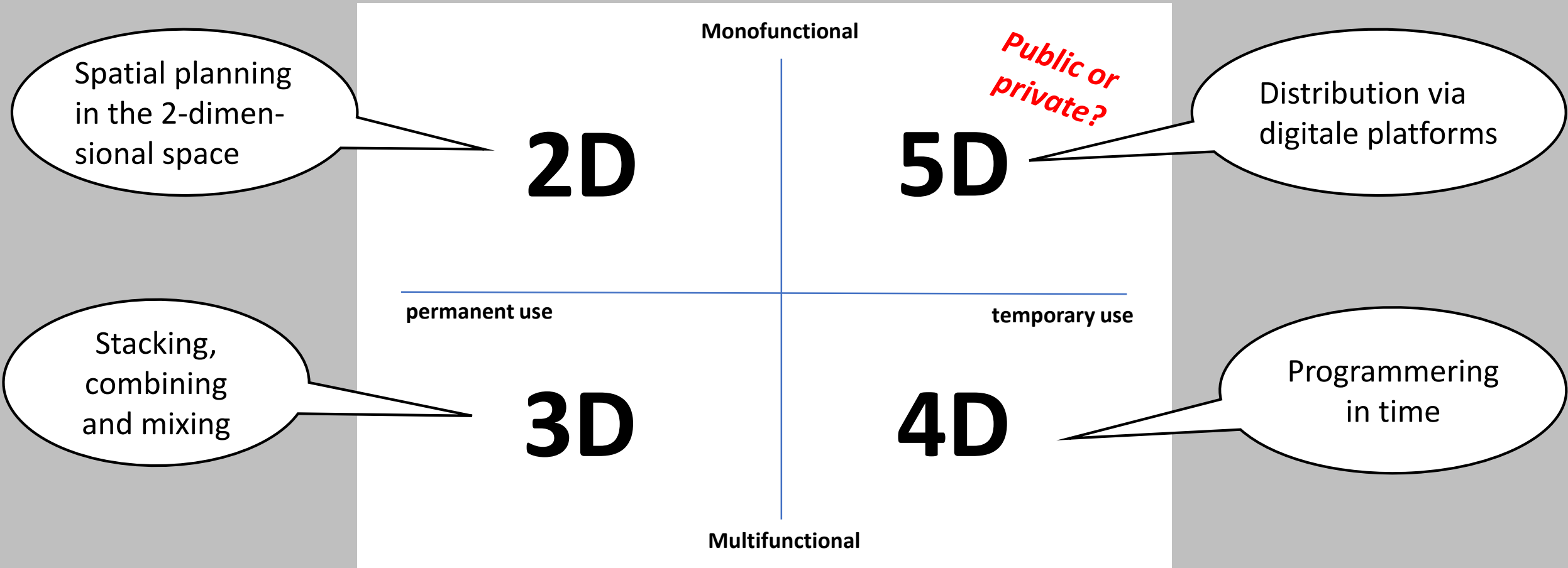


Ontdek de beste workouts in jouw stad

OneFit



Adding more dimensions to planning: 4D en 5D



Organizing principles for space usage

Governance & 2D: business as usual?

- **permanent monofunctional areas only if necessary**
- Reserved space for noisy, risky and smelly uses
- Making sure available space for (child) care, medical and other essential functions



Governance & 3D:

A magic mix doesn't fall from the sky

- How to create synergy?
- how to stimulate combined landuse and shared facilities ?
- how to avoid bad combinations?



Governance & 4D: time is on your site

- Programming public space on a daily/weekly/monthly/seasonal basis
- closing down roads on Sunday or during events
- How to stimulate changing uses in time by other parties: schools, sports facilities, parkinglots, offices,



Governance 5D: aware and assertive

- Constantly monitoring the effects of '5D-space distribution' on the city:
- collaboration with other cities
- Experimenting with local platforms

**SUPPORT YOUR
LOCALS 010**



An aerial photograph of a city skyline at sunset. The sky is filled with orange and yellow clouds, and the sun is low on the horizon. The city features a mix of modern high-rise buildings and older, lower-rise structures. A prominent bridge with a tall, thin tower is visible on the right side of the skyline. The text "Thank you." is overlaid in the center of the image in a large, white, sans-serif font.

Thank you.

2D, 3D, 4D, 5D.: Adding more dimensions to planning
Marije ten Kate | Rotterdam 9 June 2021

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