COeXISTENCE

what happens in the future when intelligent machines and humans share limited resources of urban mobility?

machine-dominated dystopia

or

synergy of human-machine COeXISTENCE

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Conflicts

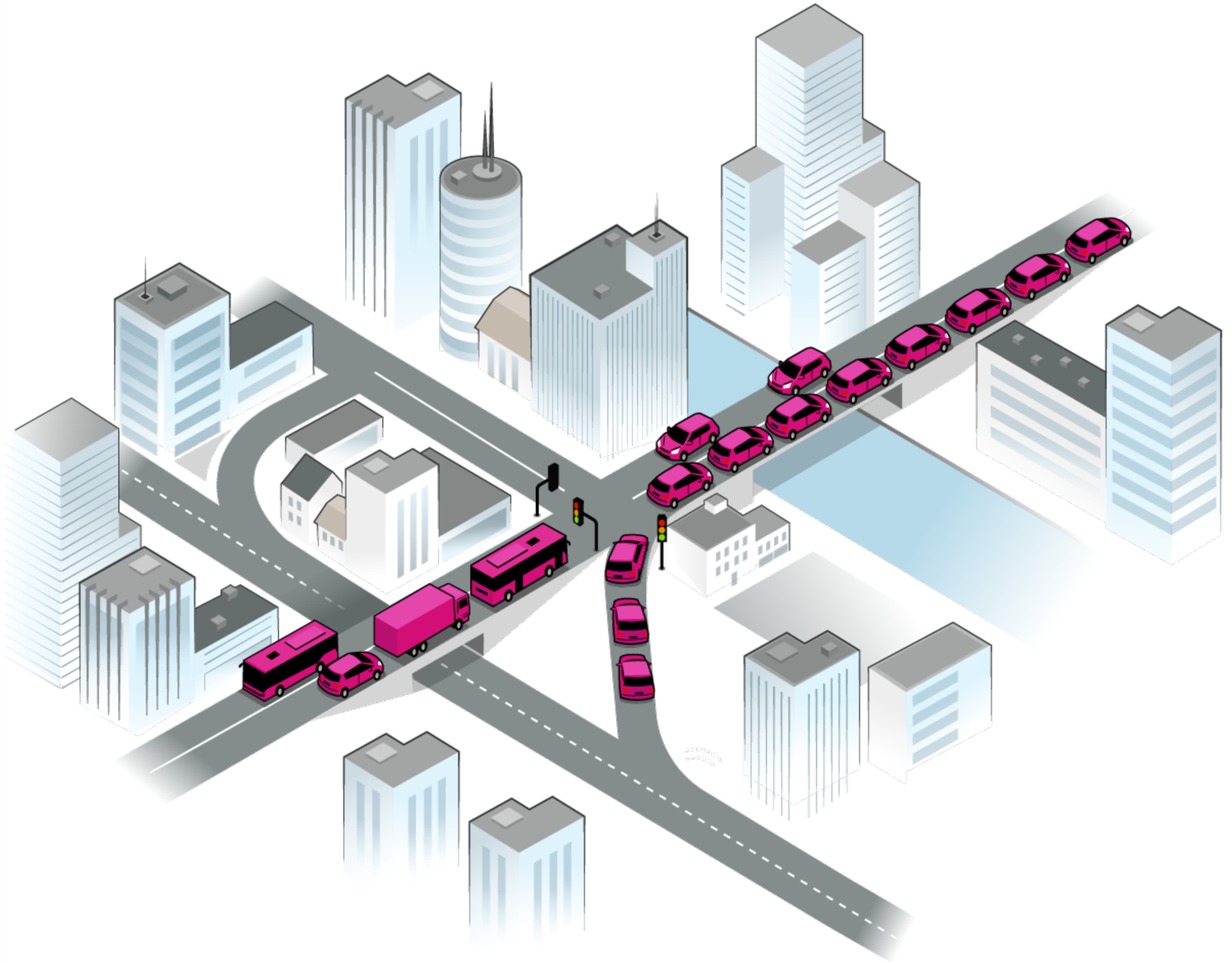
novel phenomena

congested bottleneck with
limited capacity

we (humans) rationally
optimize our decisions

and reach **user-equilibrium:**

- democratic
- egalitarian



Conflicts

new players

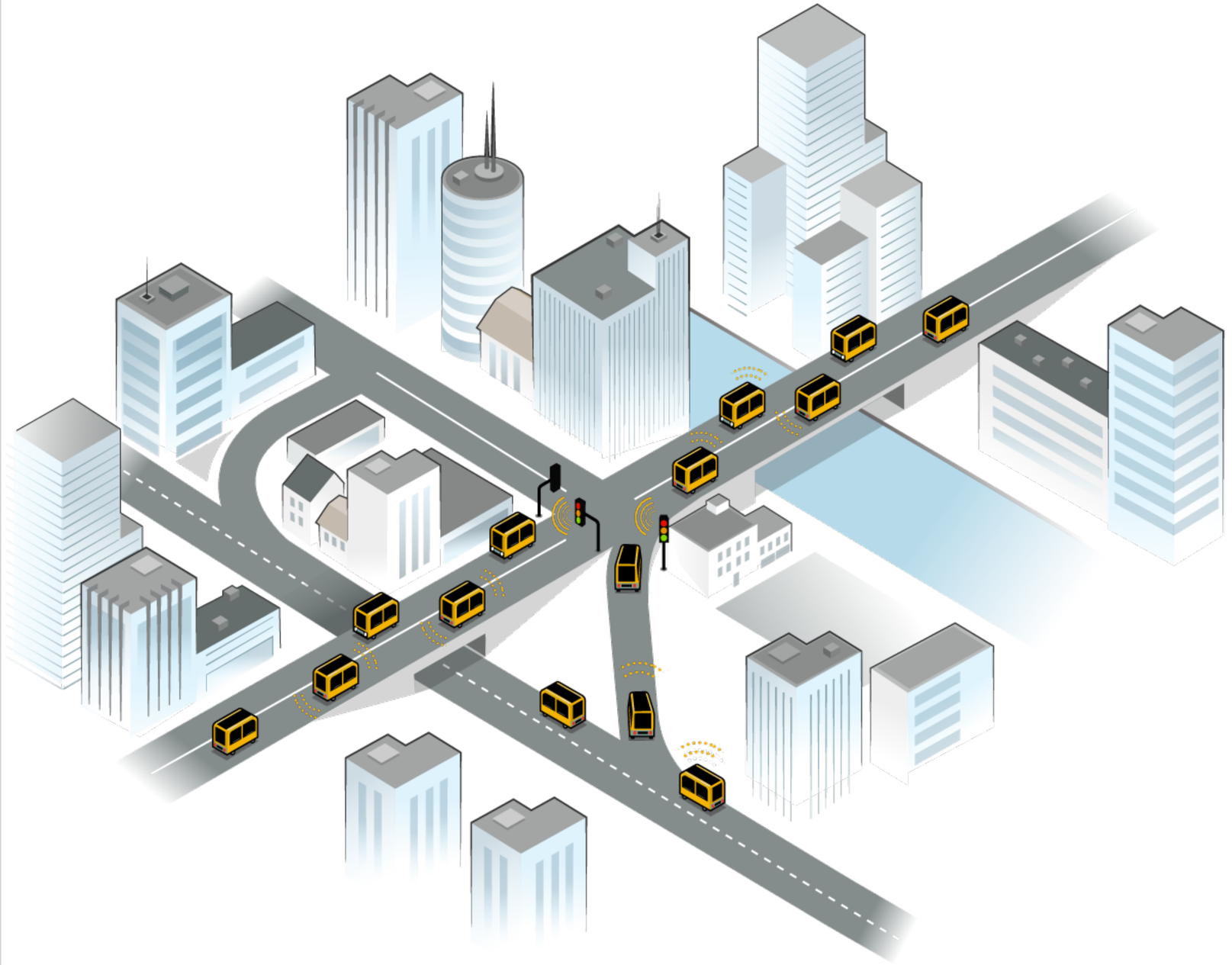
intelligent machines

change the rules of the game

better at:

- calculations
- access to data
- controllable
- collaborative

designed to win



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Conflicts

by collaboration

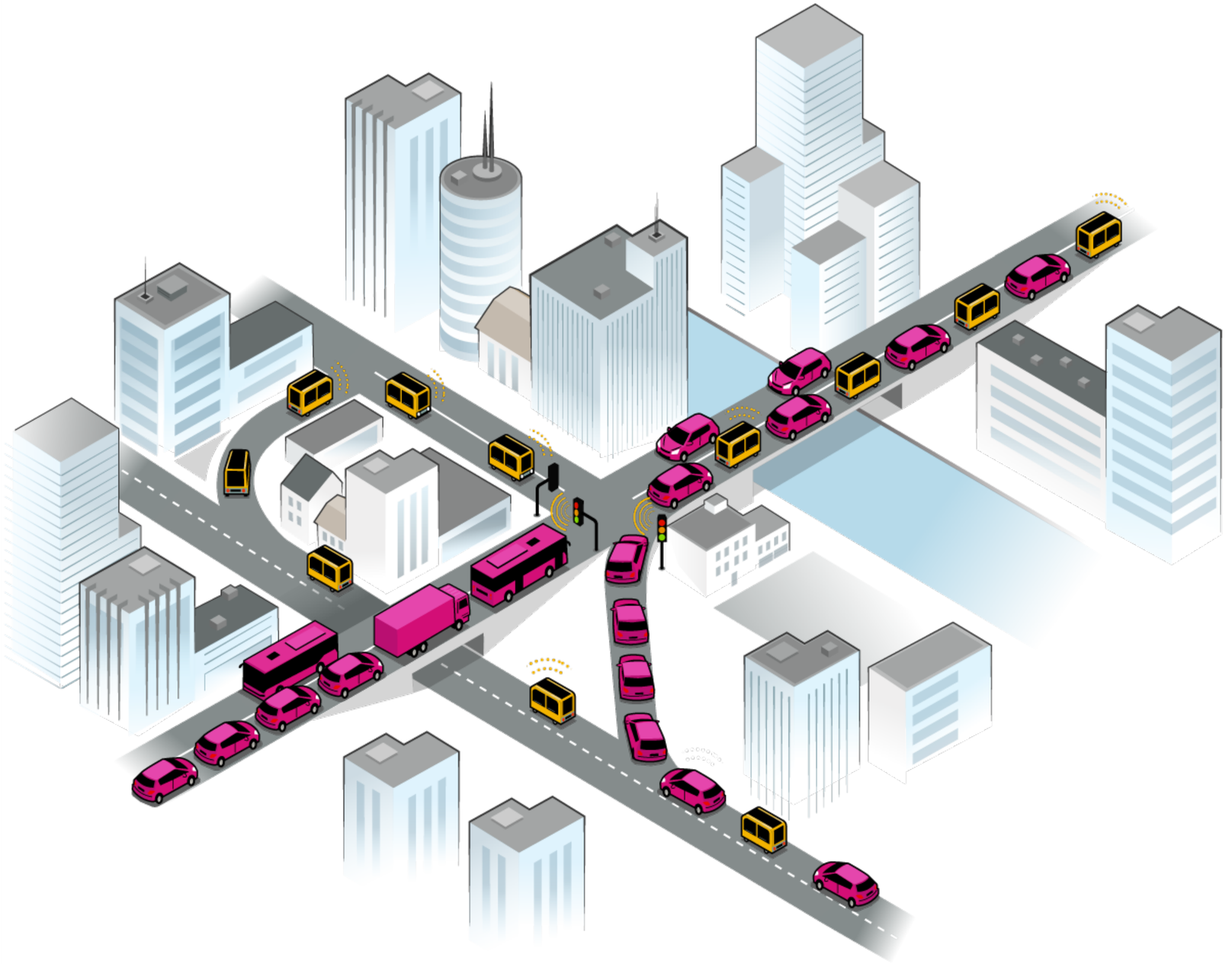
machines **trick**
the demand-actuated
traffic lights

collaboratively reroute

receive more green light

pass the bottleneck faster

humans queue longer



COeXISTENCE

framework to discover how machine intelligence may take-over our urban mobility and how to avoid it

URBAN MOBILITY = SUPPLY + DEMAND

sustainability
efficiency

infrastructure

people

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COeXISTENCE

framework to discover how machine intelligence may take-over our urban mobility and how to avoid it

URBAN MOBILITY = SUPPLY + DEMAND + INTELLIGENT MACHINES

sustainability
efficiency

infrastructure

people

COeXISTENCE

anticipate
demonstrate
resolve

paradigm shift in urban mobility

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