

# Challenges for the cities of the future

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“I took a course in speed reading. For the final exam, I had to read War and Peace from Tolstoi in 20 minutes. It deals with Russia”

Woody Allen

# “Cities of the future”: a sample

Net City, China

Woven City, Japan

Eko Atlantic City, Nigeria

Akon City, Senegal

Masdar, United Arab Emirates

Starbase, Texas

Neom, Saudi Arabia



<https://youtu.be/SZZ2N2DcLi4>

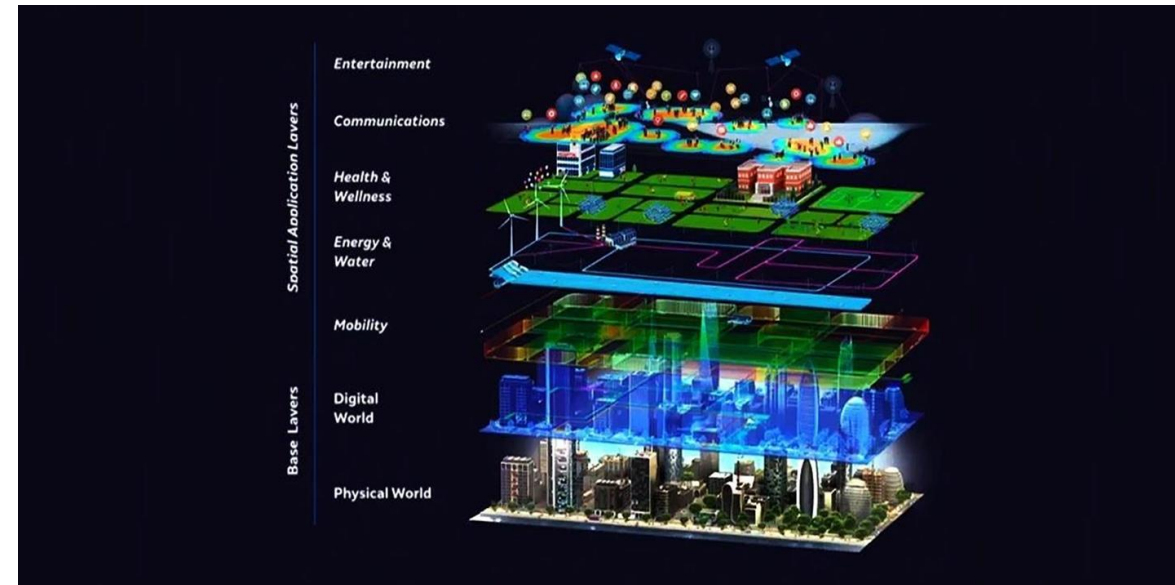
# “Our cities of the future”

Incremental developments on existing cities

Designed by Men, Machines and Nature

Cities will include the Real City, the Augmented City, Virtual Reality Portals and its Virtual Twins

Challenges for Law: regulate and enable AI mediated developments on the digital realm



<https://twitter.com/XRandrew/status/1585435992441475074>

# “Our cities of the future: the givens”

Education for all

Health for all

Security for all (social, physical, cyber)



<https://youtu.be/zGx74cB47RU>

# “Our cities of the future: the challenges”

## Economy

Knowledge based

Retain and attract talent

Hyperlocal and global/broadcasted versus distributed

New organizational models

Challenges for Law: regulate and enable a economy based on intangible capital, widespread tokenization, smart contracts and DAOs



<https://youtu.be/9Soso9273r0>

Here are 200 people in 177 cars



# “Our cities of the future: the challenges”

## Sustainability

Mobility

Food

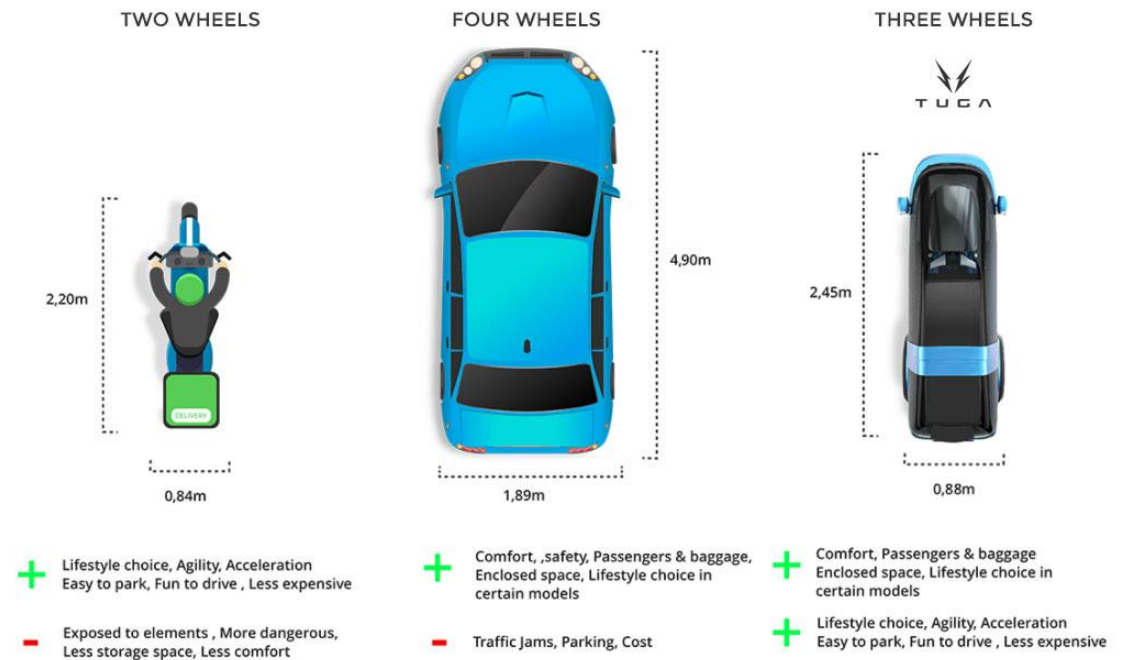
Water

Energy

Circularity

Challenges for Law: regulate and enable the transition to more sustainable cities via the design of “sticks” and “carrots” enabling behaviour change

<https://solar.lowtechmagazine.com/>



<https://tugainnovations.com/>







# “Our cities of the future: the challenges”

## Fun

Provide universal access to “fun sanctuaries”: gardens, beaches, public libraries and cultural events

Facilitate and promote live music everywhere, following the Austin model

Stimulate the development of original experiences in public spaces

Challenges for the Law: how to balance “fun” and its negative human and environmental impacts



<https://myexploralive.files.wordpress.com/2018/09/estuario-do-tejo.pdf>



# Lots of new things going on, but which is THE thing?

Many new things happening, but what's their scope?

## Frontier tech

Quantum, new  
battery chemistry,  
neural interfaces,  
autonomy, AR optics

## Important but narrow

Drones, IoT, voice,  
wearables, robotics,  
esports, 3D printing,  
VR, micro-satellites

## Structural layers

Machine learning  
Crypto?  
(3G/4G/5G)  
(Cloud, still)

## The next platform?

AR glasses?

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[Sunday News](#)

# Tech driven cases

Naves do Conhecimento <https://youtu.be/zGx74cB47RU>

Doha Media Dish <https://vimeo.com/433111593>

Rock in Rio flyover Rio <https://youtu.be/hnMBTU-kyh0>

Olympic Park, Rio <https://youtu.be/BFVjw8lu8Es>

Audience Game, Lyon <https://vimeo.com/98552951>

Making of Santander <https://www.youtube.com/watch?v=lq9X-4LdX80>

i-triu scooter features <https://youtu.be/6klwOtKcnbA>

Tuga Thunder [www.tugacommunications.com](http://www.tugacommunications.com)