WHO ARE WE BUILDING SMART CITIES FOR?
EQUITY AND INCLUSION IN SMART CITY DESIGN

ZACHARY SPICER

WHAT IS DRIVING SMART CITY DEVELOPMENT?
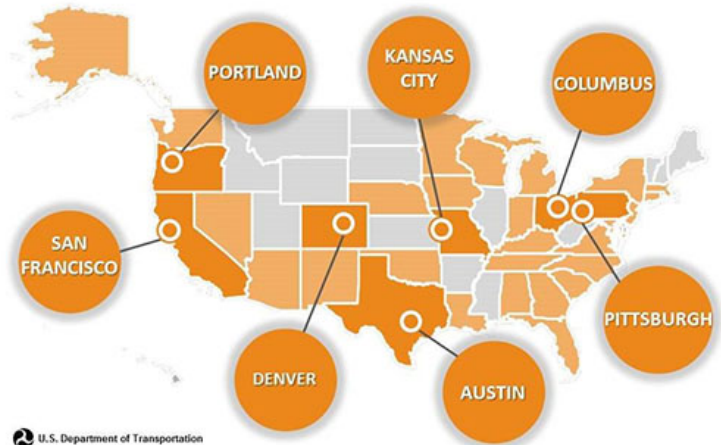
The 2018 World's Smartest Cities

1. SEATTLE
2. OTTAWA
3. VANCOUVER
4. MOSCOW
5. ST. PETERSBURG
6. PARIS
7. CALGARY
8. SAN FRANCISCO
9. MONTREAL
10. TORONTO

The Top 10 Smartest Cities

New York is the world's most important economic center, ranking first for this dimension, and is in second place for Technology. London tops the Mobility and Transportation and the Human Capital dimensions, being the city wi[...] schools and univ[...] International Im[...] Impact, Paris pr[...] destination. How[...] cohesion scores, [...] respectively. It is[...] does not yet exis[...] improvement.

Smart City Challenge Finalists
PORTLAND, KANSAS CITY, COLUMBUS, SAN FRANCISCO, DENVER, AUSTIN, PITTSBURGH
U.S. Department of Transportation

SMART CITIES CHALLENGE
#smartcitiesCanada

A DIGITAL GATED COMMUNITY?

Digital Layer

PHYSICAL LAYER

Buildings

Mobility
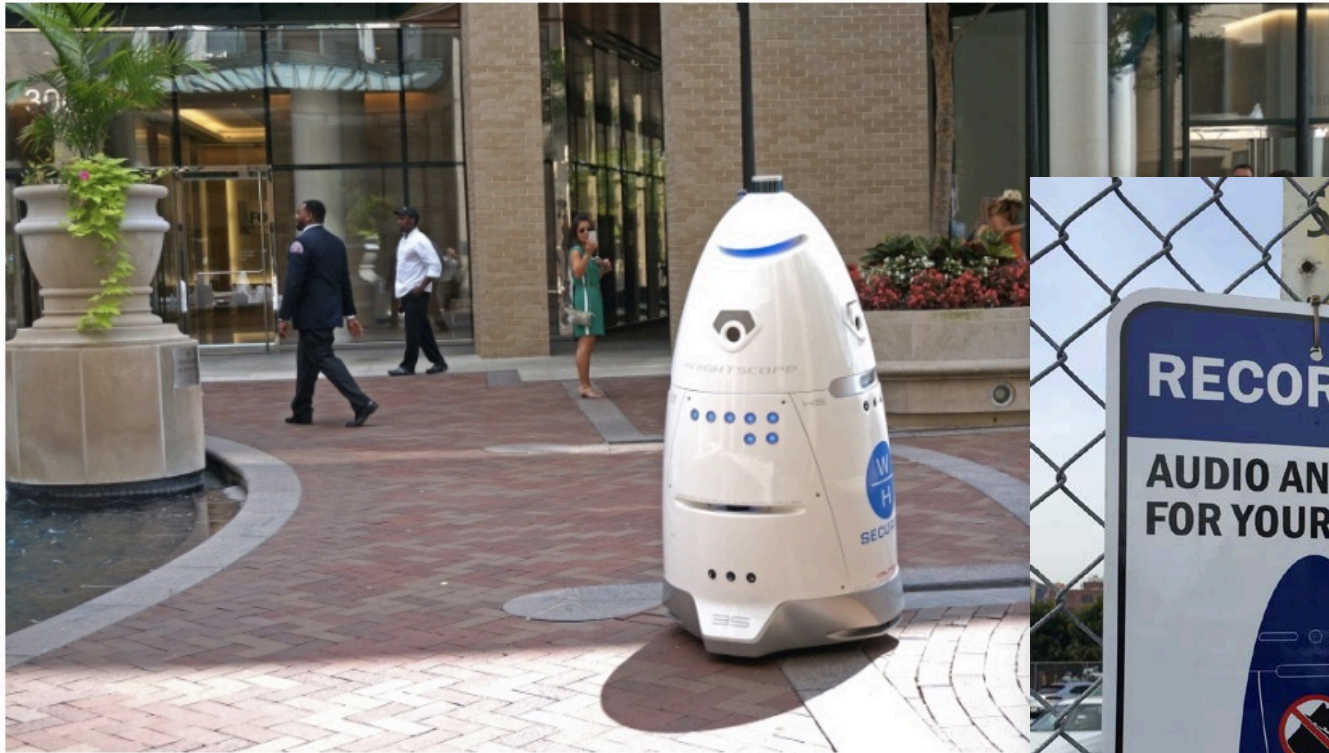
Public Realm

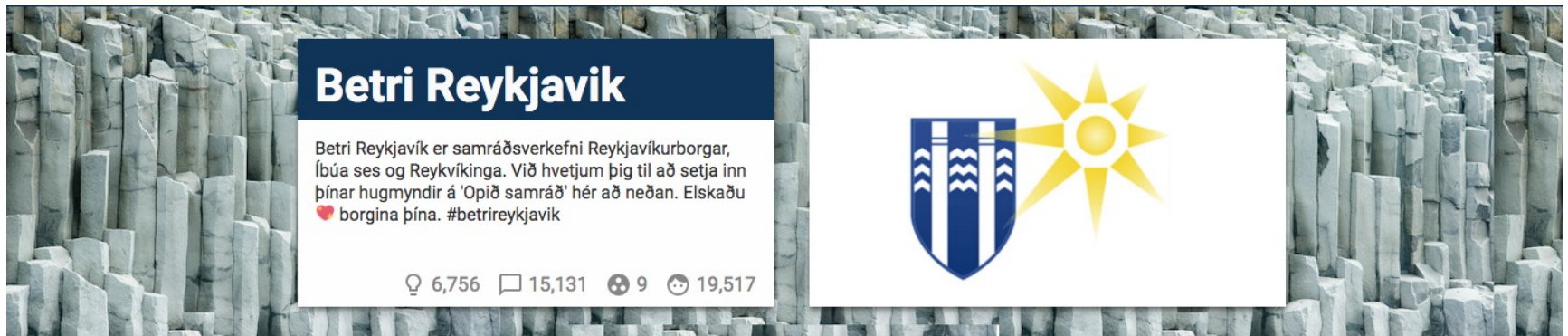**Infrastructure**
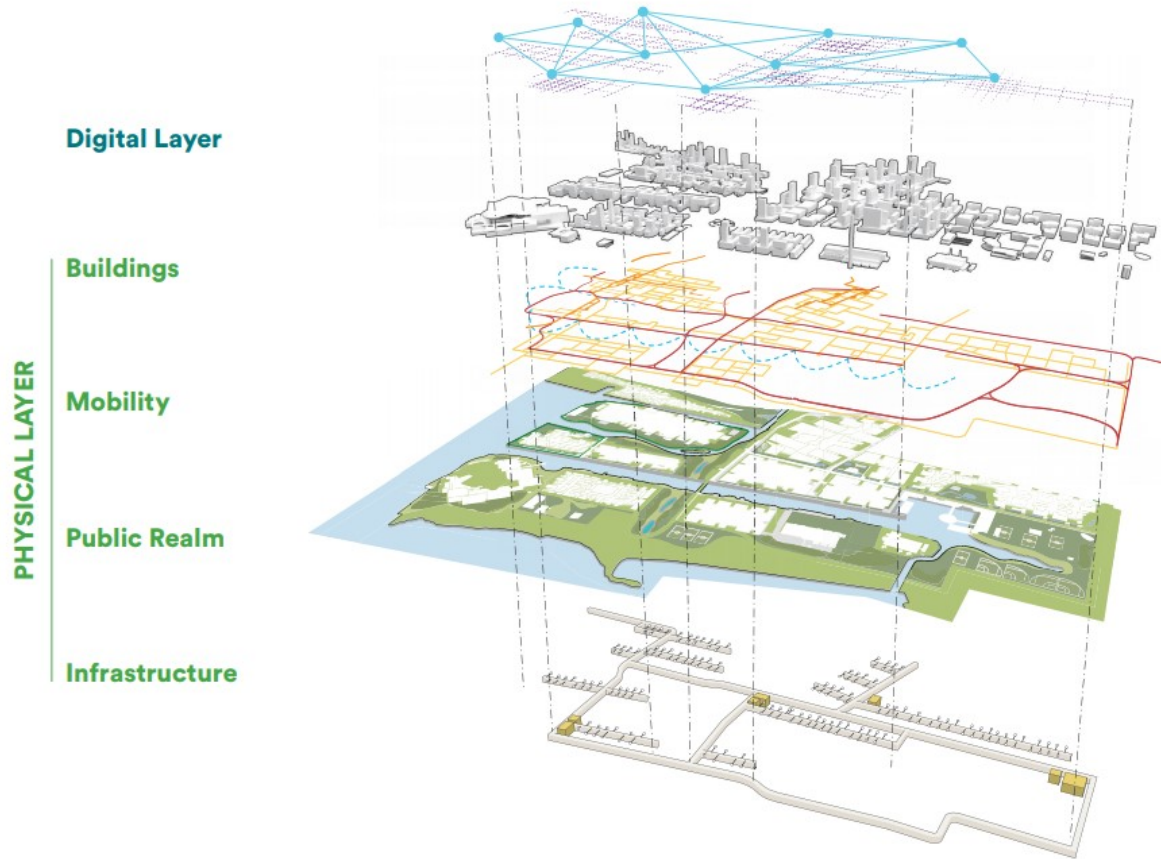
A 'PERSONALIZED' URBAN EXPERIENCE

DIGI-TEL RESIDENTS CLUB AND THE CITY CARD. MOBILE APP

San Francisco SPCA deployed this security robot to chase off homeless people

RECORDING

AUDIO AND VIDEO FOR YOUR SAFETY

A PATHWAY TO DIGITAL INCLUSION?

Share of population by neighborhood broadband subscription rate ...

... for neighborhoods with low to high median household income

	$3,271 – $35,391	$35,391 – $46,016	$46,016 – $57,522	$57,522 – $76,438	$76,438 – $250,001
0-20	13.6%	13.8%	10.3%	8%	
20-40	37.5%	19.4%	14%	20.5%	40.2%
40-60	35.7%	41.6%	32.5%	47.7%	
60-80	10.7%	21.5%	35.1%	18.9%	50.1%
80-100			8.1%		

Median household income
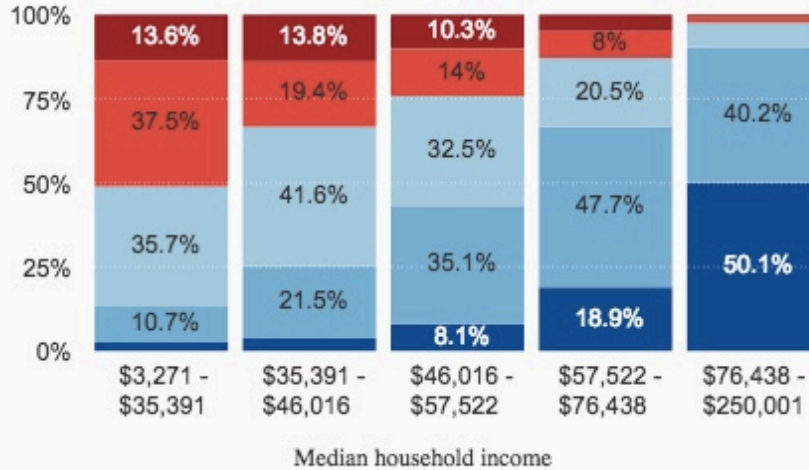
Subscription rate (%): ■ 0-20 ■ 20-40 ■ 40-60 ■ 60-80 ■ 80-100

... for neighborhoods with low to high shares of residents who have not attained education beyond high school

	0.0%- 25.6%	25.6%- 38.0%	38.0%- 48.1%	48.1%- 58.6%	58.6%- 100%
0-20				14.3%	18.6%
20-40			13.1%	22.9%	35%
40-60	9.7%	22.7%	33.4%	36.7%	32.1%
60-80	43.3%	45.6%	35.2%	21.1%	11.9%
80-100	44.6%	23.8%	10.9%		

Share of neighborhood with HS diploma or less

Source: Brookings Metro
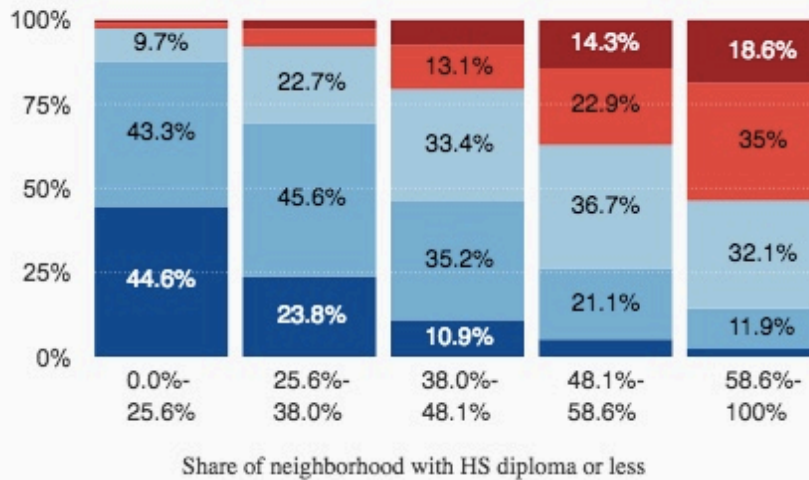
	Any cellphone	Smartphone	Cellphone, but not smartphone
Total	95%	77%	18%
Men	96%	78%	18%
Women	94%	75%	19%
White	94%	77%	17%
Black	94%	72%	23%
Hispanic	98%	75%	23%
Ages 18-29	100%	92%	8%
30-49	99%	88%	11%
50-64	97%	74%	23%
65+	80%	42%	38%
Less than high school graduate	92%	54%	39%
High school graduate	92%	69%	23%
Some college	96%	80%	16%
College graduate	97%	89%	8%
Less than $30,000	92%	64%	29%
$30,000-$49,999	95%	74%	21%
$50,000-$74,999	96%	83%	13%
$75,000+	99%	93%	6%
Urban	95%	77%	17%
Suburban	96%	79%	16%
Rural	94%	67%	27%

Source: Pew Research Centre

BUILDING EQUITY
INTO THE SYSTEM

BUILDING EQUITY INTO THE SYSTEM

PROMISE AND PERIL

Promise	Peril
Create smart living by improving quality of life, increasing choice, utility, safety and security	Prioritize the investment of vested interests, reinforce inequality and deepen levels of control and regulation, rather than creating a more socially just and equal society
Produce smart people by creating a more informed citizenry and fostering creativity, inclusivity, empowerment and participation	Technologies deployed have profound social, political and ethical effects, introducing new forms of social regulation, control and governance, extending surveillance and eroding privacy and enabling social sorting