

Coming of Age: The Internet of Things

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2017

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1999: "Internet of Things" is coined.

2020: 30+ billion connected devices
(200+ if you consider enterprise).

1GHz in 2000



Kryotech SuperG

1GHz in 2015



Raspberry Pi Zero

@jamieskella

FREE RASPBERRY PI WITH THIS ISSUE

The MagPi



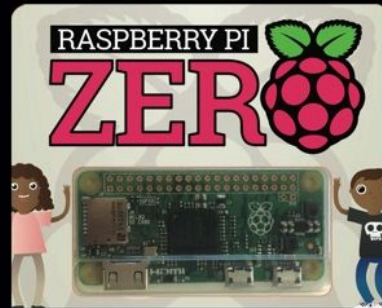
The official Raspberry Pi magazine

Issue 40 Christmas 2015

raspberrypi.org/magpi

#PIZERO

Raspberry Pi Zero is a real \$5 computer. Learn to code while you play Minecraft (or do just about anything else you can dream up)



FREE WITH *The MagPi* **ISSUE #40** MAGAZINE



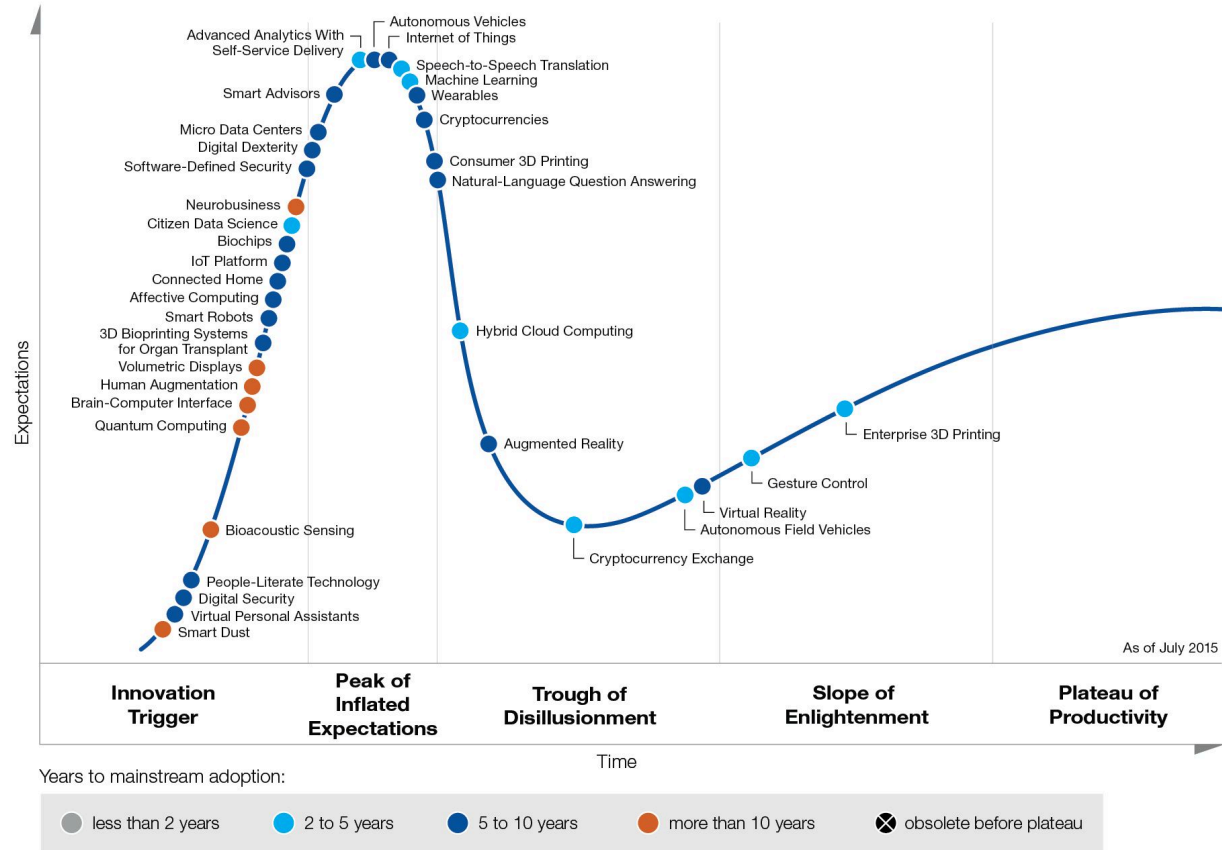
PLUS: ASTRO PI IS EN ROUTE TO THE INTERNATIONAL SPACE STATION







Emerging Technology Hype Cycle



gartner.com/SmarterWithGartner

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NEW! Patent Pending Technology

Only Brand That Can Tell You 6 Days Sooner than your missed period
See side panel for details.

FIRST RESPONSE[™] PREGNANCY

Pregnancy PRO
Digital Pregnancy Test & App Access

24/7 Cycle & Pregnancy Support From Your Phone*



PREGNANCY TEST IS
>99% ACCURATE
from the day of your expected period**

1 TEST & APP ACCESS AVAILABLE ON SMARTPHONES & TABLETS

*Available within App **>99% accurate at detecting typical pregnancy hormone levels. Note that hormone levels vary. See insert. See side panel for details about testing early.

AUSTRALIAN INTERNET OF THINGS @ HOME MARKET 2019

INTERNET CONNECTED
DEVICES IN THE HOME:
AVERAGE OF 24
BY 2019



SMART HOME SERVICES:
► Installation ◄
► Managed / subscription services ◄
\$812 MILLION BY 2019



SMART HUBS:
\$64 MILLION BY 2019



SMART ENERGY:
► Energy sensors ◄
► Smart outlets ◄
► Smart light bulbs ◄
\$658 MILLION BY 2019



SMART SECURITY:
► Security alarms and sensors ◄
► Smart locks ◄
\$416 MILLION BY 2019



SMART LIFESTYLE:
► Appliances ◄
► Gardening ◄
\$1.2 BILLION BY 2019

\$3.2BN

\$289M

2015:
TOTAL
MARKET

2019:
TOTAL
MARKET



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40.2%



**BUSINESS/
MANUFACTURING**

Real-time analytics of supply chains and equipment, Robotic machinery

30.3%



HEALTH CARE

Portable health monitoring, electronic recordkeeping, pharmaceutical safeguards

8.3%



RETAIL

Inventory tracking, smartphone purchasing, anonymous analytics of consumer choices

7.7%



SECURITY

Biometric and facial recognition locks, remote sensors

4.1%



TRANSPORTATION

Self-parking cars, GPS locators, performance tracking

Global Rank	Country/Region	% Above 4 Mbps	QoQ Change	YoY Change
2	South Korea	96%	0.6%	2.1%
10	Hong Kong	92%	1.0%	9.2%
14	Japan	89%	1.4%	3.9%
17	Taiwan	89%	2.9%	25%
27	Thailand	86%	-0.4%	42%
28	New Zealand	86%	6.6%	44%
33	Singapore	84%	3.8%	15%
50	Australia	71%	4.1%	29%
54	Sri Lanka	65%	44%	588%
73	Malaysia	43%	8.4%	30%
79	China	32%	19%	29%
85	Vietnam	25%	36%	575%
98	Philippines	10%	3.4%	144%
99	India	9.9%	27%	101%
101	Indonesia	6.0%	31%	-10%

Figure 25: 4 Mbps Broadband Adoption by APAC Country/Region

Global Rank	Country/Region	% Above 10 Mbps	QoQ Change	YoY Change
1	South Korea	77%	-2.4%	0.1%
3	Hong Kong	60%	-0.2%	40%
6	Japan	56%	-0.1%	2.7%
14	Singapore	47%	16%	120%
24	Taiwan	35%	-4.8%	36%
41	New Zealand	21%	38%	177%
44	Australia	17%	8.8%	60%
46	Thailand	14%	8.1%	240%
63	Malaysia	3.8%	2.6%	46%
68	India	1.8%	60%	135%
69	China	1.5%	31%	22%
-	Sri Lanka	1.5%	-19%	475%
-	Philippines	0.6%	2.1%	109%
-	Vietnam	0.4%	13%	380%
-	Indonesia	0.4%	39%	15%

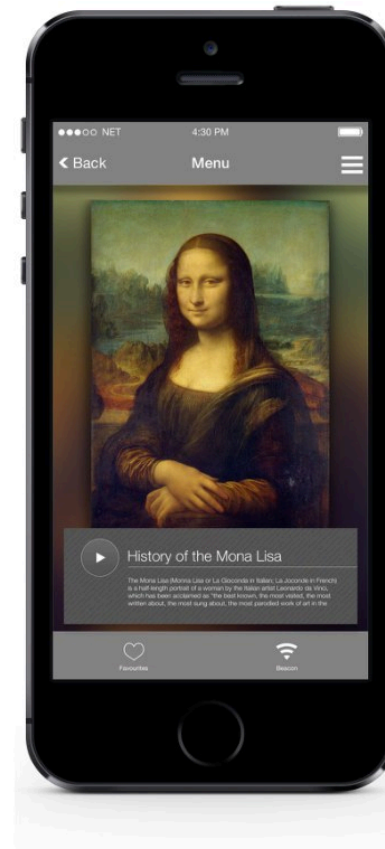
Figure 26: 10 Mbps Broadband Adoption by APAC Country/Region

From IoT to Internet of Everything: Invisible, dynamic, ubiquitous...

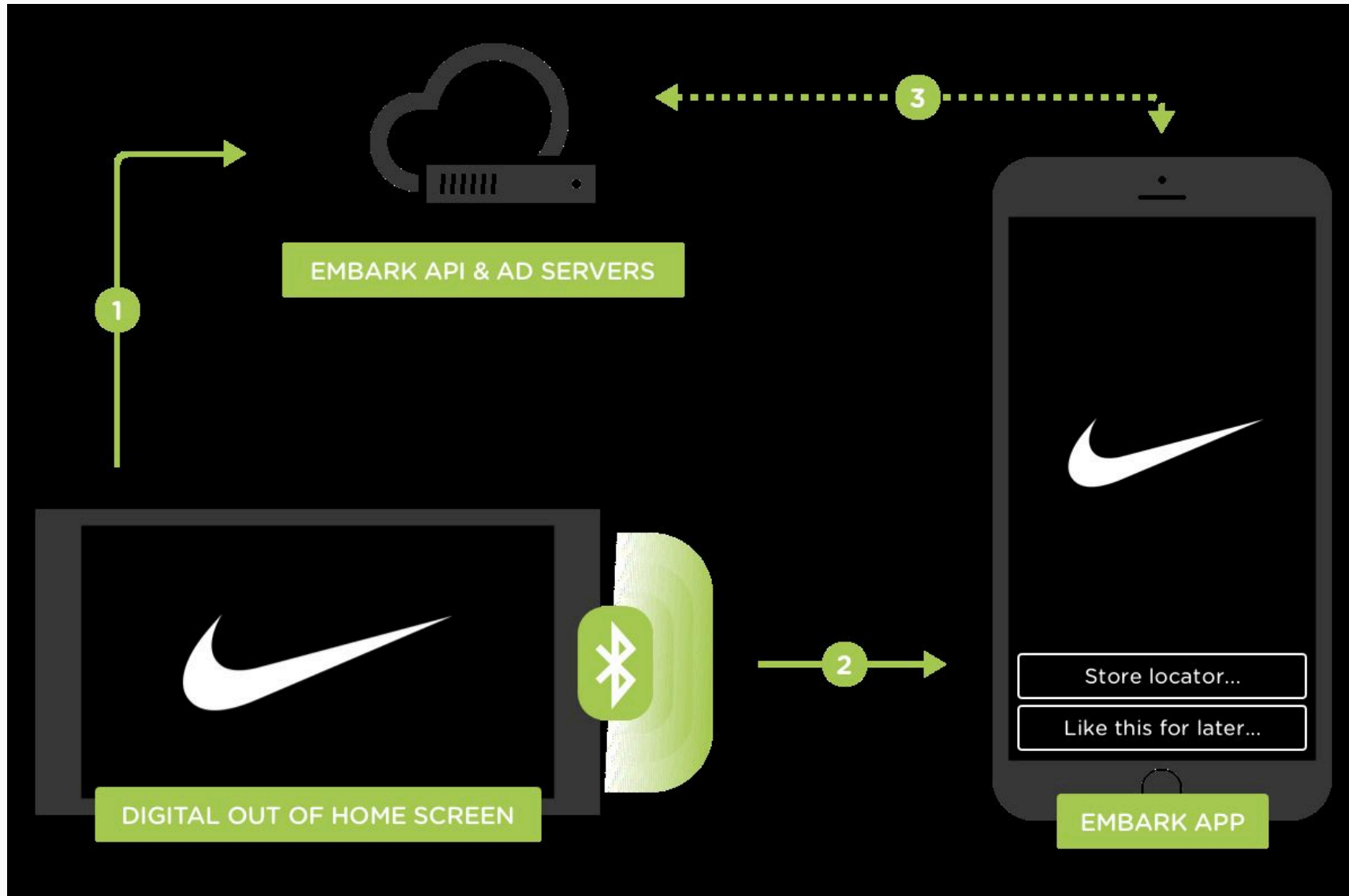


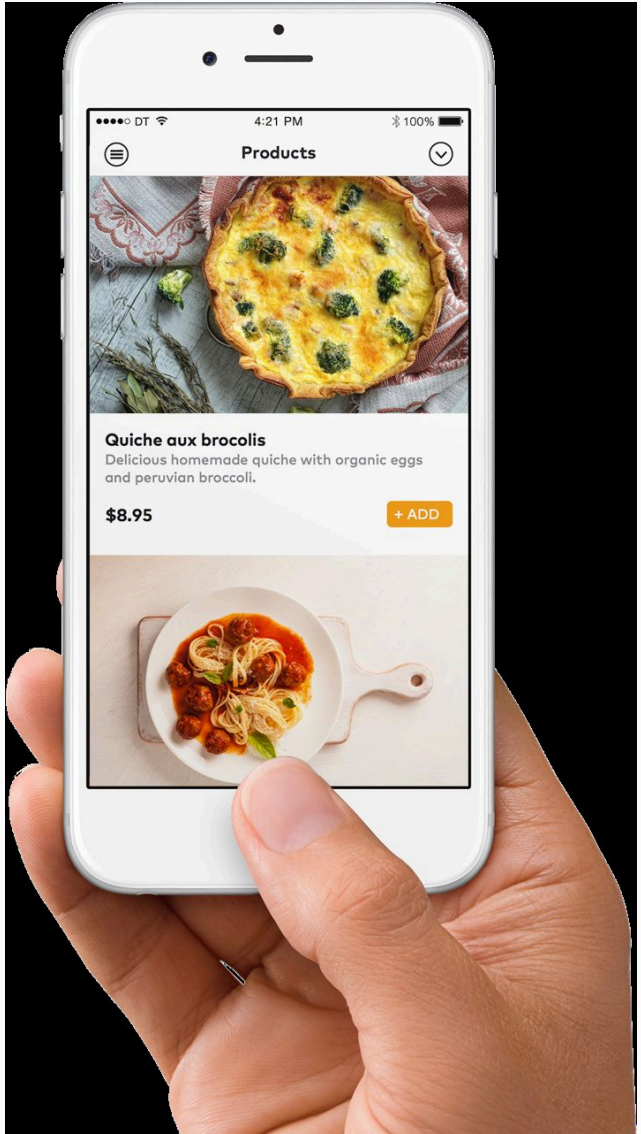
- Marketing and advertising
- Automated admin and operations
- Indoor navigation
- Emergency response and routing
- Accessibility for impaired and disabled

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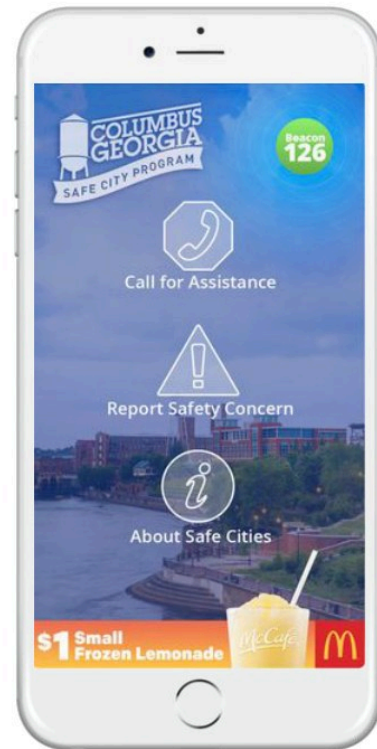


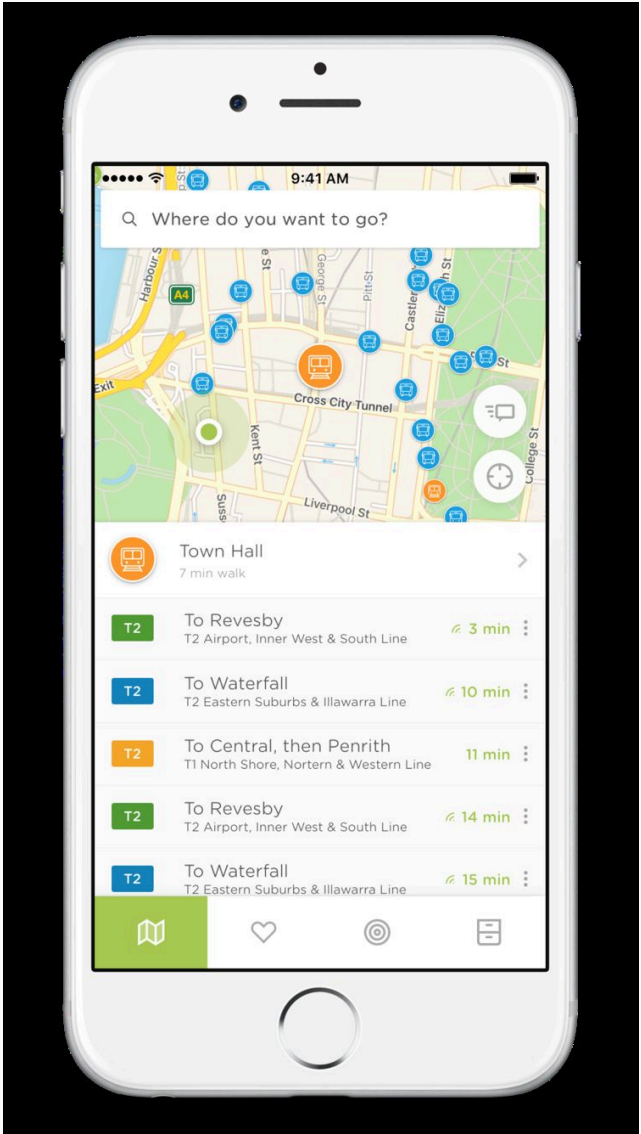
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Virtual Warsaw

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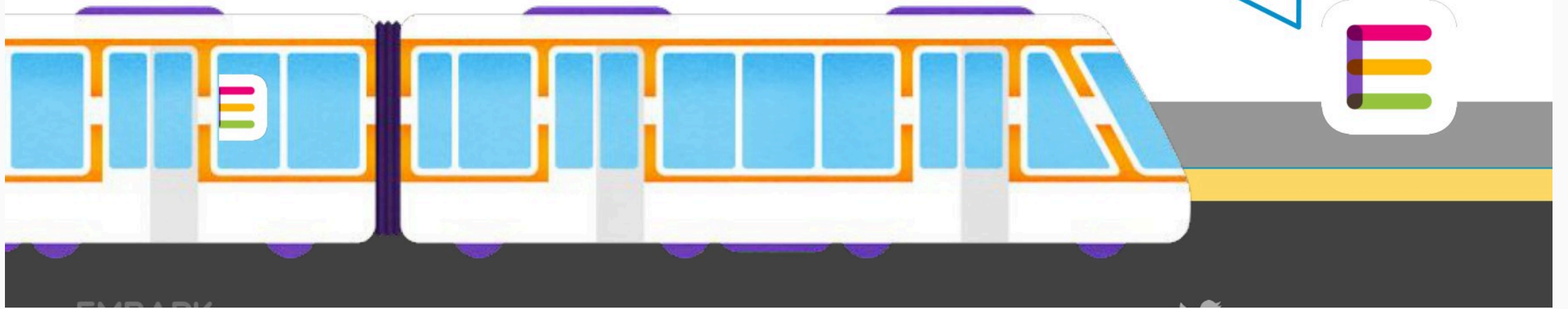
Subway platforms that talk...

“This is Town Hall Station.
Your stop is next.”



... and relay messages

“A vision impaired Embark user, John S., has requested assistance on your platform.”



Skip the trough.
Redesign the world.

Jamie Skella

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