

The Three Waves of the Internet

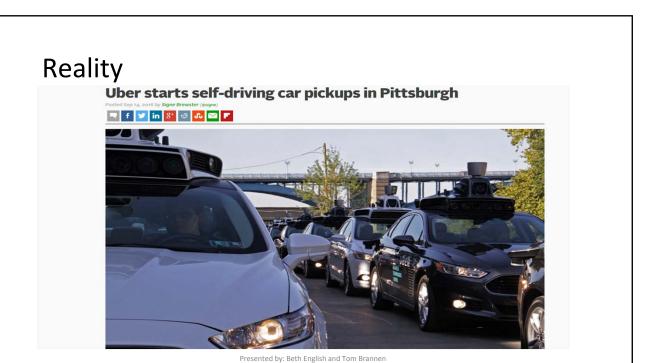
- First Wave 1985-1999
 - Building the Internet
 - Laying the foundation
- Second Wave 2000-2015
 - App Economy and Mobile Revolutions
 - Search, social, and ecommerce, startups grew on top of the internet
- Third Wave 2016 ———
 - · Internet of everything
 - Ubiquitous connectivity allows major real-world sectors to be transformed

Presented by: Beth English and Tom Brannen

Science Fiction - 2078



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Ford plans mass-market self-driving car by 2021 Carmaker sets up deals to develop model with no pedals or steering wheel Ford Plans sedan flat recognishes all diving solvinous, scalaring sensors on file and ETT Out Plans sedan flat recognishes all diving solvinous, scalaring sensors on file and ETT Ford says it will build a totally self-driving car by 2021 as it seeks to take the lead in the global race to produce the world's first high-volume driverless vehicle. Presented by: Beth English and Tom Brannen

Science Fiction



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- •Required Core Health Conditions (10): Anemia, Atrial Fibrillation (AFib), Chronic Obstructive Pulmonary Disease (COPD), Diabetes, Leukocytosis, Pneumonia, Otitis Media, Sleep Apnea, Urinary Tract Infection, Absence of condition.
- •Elective Health Conditions (Choice of 3): Cholesterol Screen, Food-borne Illness, HIV Screen, Hypertension, Hypothyroidism/Hyperthyroidism, Melanoma, Mononucleosis, Pertussis (Whooping Cough), Shingles, Strep Throat.
- •Required Health Vital Signs (5): Blood Pressure, Heart Rate, Oxygen Saturation, Respiratory Rate, Temperature.
- •Star Trek 2265
- •XPRIZE will be awarded in 2017

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Other Trends

- The Rise of the Rest
 - Austin, Texas Big Data-ranked first in start up activity index
 - North Carolina Research Triangle includes Durham Tobacco Complex
 - •New Orleans-Education Tech, 1 startup for every 200 people
 - Colorado-Natural Foods, Storage, Bio tech
 - •Miami, South Florida- Medical tech Global Expansion Latin America
 - •Pittsburgh-Robotics
- Impact Investing
 - •Sustainable investments are those which offer competitive financial returns and also create a positive social/environmental impact.
 - Soylent
 - Tesla

Requirements for The New Era

- Second wave favored mavericks, third wave does not-not a Pokemon Go moment
- Third wave gatekeepers \$.03 pancreatic cancer test versus \$600 Epipen
 - Third wave industries are most regulated in the world
 - Obstacles
 - Not just hardware and software
 - Logistics
 - Supply chains
 - Partnerships
 - Not overnight success-long slug
 - •Requires a new approach to business-can't just focus on tech

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All Industries Will be Affected

- Transportation
- Insurance
- Hospitality
- Education
- Health care-completely personalized, substantial extension of life
- Government
 - Internet enabled air and ocean quality sensors
- Agriculture
 - Self driving tractors-in place for years
 - Nano tech soil sensors
- Communication Technology?

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The Three waves of Telecom

- First Wave 1985-1999 1999-2016+
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 - Laying the foundation –VOIP, Convergence of Voice and Data
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Wave Zero

	Founded		Years in Business
Siemens	1847	2016	169
Siciliens	1047	2010	109
Nokia	1865	?	151
Lucent	1869	2016	147
Avaya	1869	?	147
Ericson	1876	2012	136
Nortel	1895	2009	114
Alcatel	1898	2016	118
		Average	140

^{*} These companies live on through acquisitions. Date is an estimation of when their core business no longer operated under the most recent name. For illustration purposes only.

1st and 2nd Wave

	Founded	Market Cap	Years in Business
Cisco	1984	\$156,000,000,000	32
Microsoft	1975	\$451,000,000,000	41
Apple	1976	\$582,000,000,000	40
Google	1998	\$537,000,000,000	18
Facebook	2004	\$359,000,000,000	12
	TOTAL	\$2,085,000,000,000	28.6

Other 2nd Wave Communications Businesses

- •Slack 3 million daily active users
 - •3 years old
- •Whatsapp Over 1 billion users worldwide
 - •7 years old
 - •User Penetration 34% globally
 - •Mideast 63%
 - •Latin America 66%
- •North America 7%





What's different?

- Haven't we heard this story before?
- Why is this any different?

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 Ubiquitous connectivity allows major real-world sectors to be transformed sectors to be transformed by: Beth English and Tom Brannen

Output

Description:

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Description:

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How Big is it?

- Bigger than the internet of things, bigger than the internet of everything
- Electricity enabled/internet enabled
- Everything becomes individualized and information enabled







If you want to go quickly, go alone. If you want to go far, go together.



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Thank You!

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