



The IoT Inc Business Meetup Silicon Valley

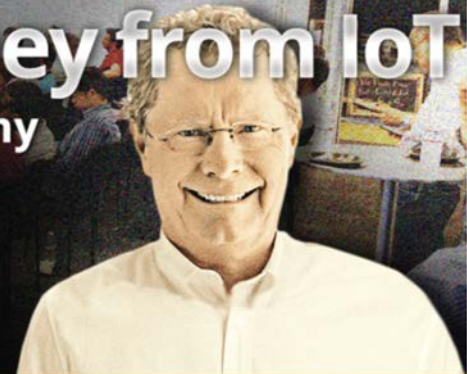
Opening remarks and guest presentation

Join us onsite or online on March 3 at 6PM PST

Making Money from IoT

After All, Isn't that Why We Are Doing This?

John C. Mein
Petzila



IoT Inc. Meetup

Bruce Sinclair (Organizer): bruce@iot-inc.com

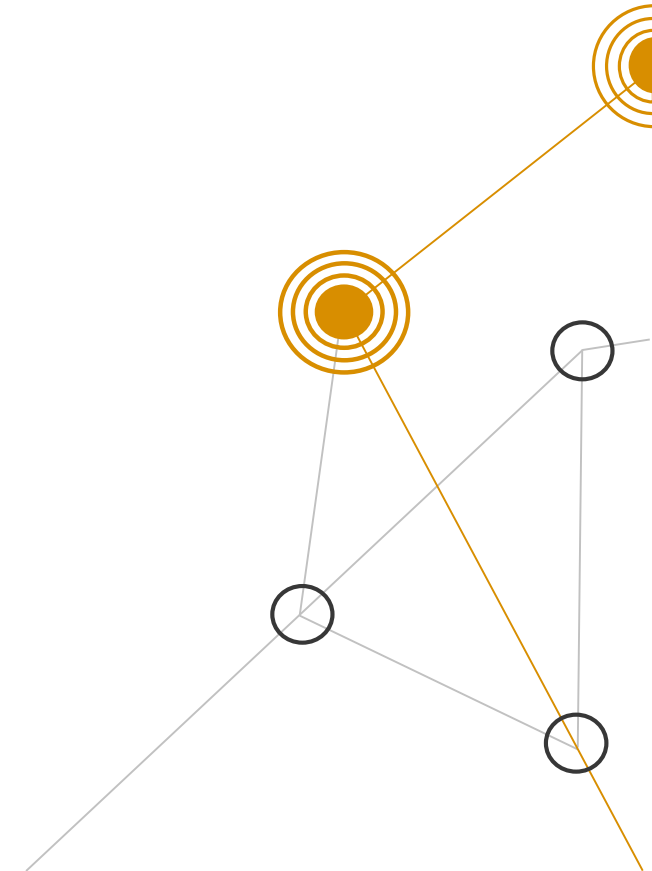


Target of Meetup

For business people selling products and services into IoT
but of course everyone else is welcome: techies, end-users, ...

Focus of presentations and discussions:

Business Models
Support
Marketing
Sales
Distribution
Finance
Post Sales
Pre Sales





Coming Up

Next Meeting, Thursday, April 7, 2016



Presentation, recording of Meetup and announcements for today's meeting will be sent in one week to everyone who provided their email upon signup for this meeting or any other past Meetup

My email: bruce@iot-inc.com

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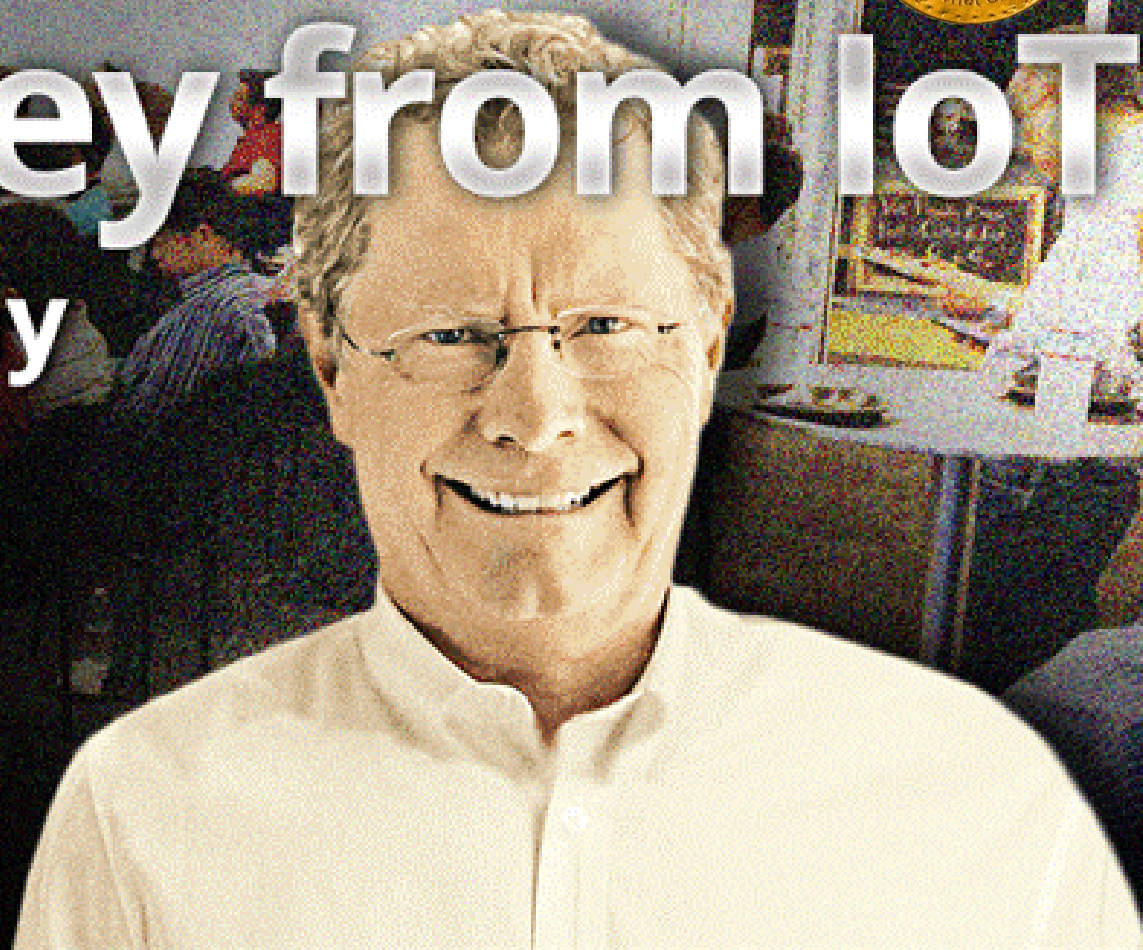


Making Money from IoT

After All, Isn't that Why
We Are Doing This?

John C. Mein

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The changing landscape of disruptive technologies

Technology
Innovation Center



cutting through complexity

Technologies enabling the next indispensable consumer technology

Q. Select the top technology that in the next three years will enable the next indispensable consumer technology.

Technologies	Global	U.S.	China	Japan	ASPAC	EMEA
Cloud – SaaS/PaaS/IaaS	11%	14%	15%	13%	11%	6%
Mobile - platforms and apps	9%	9%	3%	10%	8%	11%
Internet of things/ M2M	9%	8%	9%	3%	9%	9%
Data & analytics	9%	14%	3%	10%	7%	8%
Biotech/digital health/healthcare IT	8%	15%	3%	3%	7%	7%
3D printing	7%	2%	4%	3%	6%	12%
Cyber security	6%	5%	8%	10%	7%	7%
Robotics	6%	5%	6%	3%	6%	8%
Artificial intelligence/cognitive computing	5%	4%	15%	10%	8%	2%
Digital currency platforms (e.g., Bitcoin, payment systems, etc.)	4%	2%	6%	7%	6%	5%

Source: KPMG Technology Innovation Survey 2015

Partial list of technologies shown

Technologies that will have the greatest impact in driving business transformation

Q. Select the top technology that in the next three years will have the greatest impact in driving business transformation for enterprises

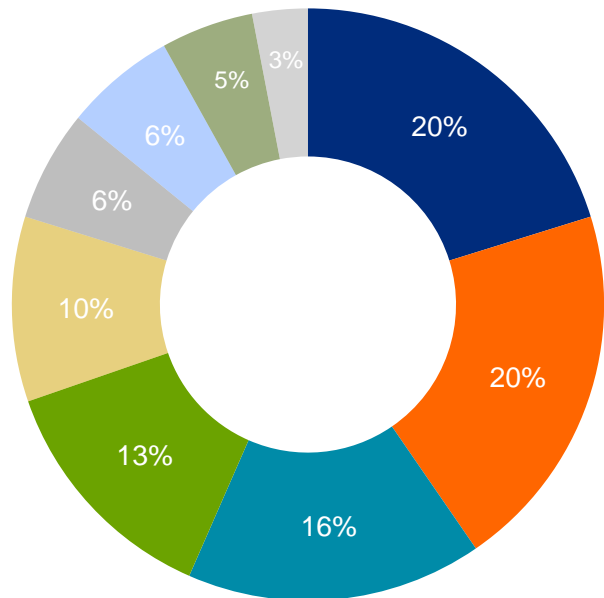
Technologies	Global	U.S.	China	Japan	ASPAC	EMEA
Cloud – SaaS/PaaS/IaaS	11%	13%	9%	13%	10%	10%
Internet of things/ M2M	9%	8%	14%	0%	9%	10%
Data & analytics	9%	13%	8%	3%	10%	6%
Mobile - platforms and apps	7%	5%	5%	7%	7%	10%
Robotics	6%	4%	8%	3%	7%	8%
Cyber security	6%	10%	5%	7%	4%	5%
Biotech/digital health/healthcare IT	5%	8%	3%	3%	4%	4%
3D printing	5%	4%	5%	7%	6%	5%
Artificial intelligence/cognitive computing	5%	8%	9%	23%	6%	3%
Digital currency platforms (e.g., Bitcoin, payment systems, etc.)	4%	5%	5%	3%	6%	4%
Biometrics: gesture, facial, voice	4%	4%	12%	3%	6%	3%

Source: KPMG Technology Innovation Survey 2015

Partial list of technologies shown

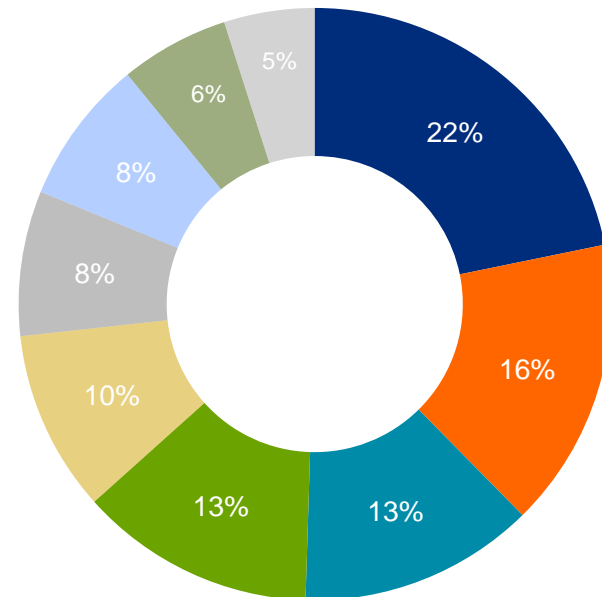
Enterprise technologies – IoT/M2M benefits & challenges

Q. What is the top benefit for businesses to adopt this technology?



- Improved business efficiencies/higher productivity
- Faster innovation cycles
- Product/service differentiation
- Cost reductions

Q. What is the biggest challenge for businesses to adopt this technology?



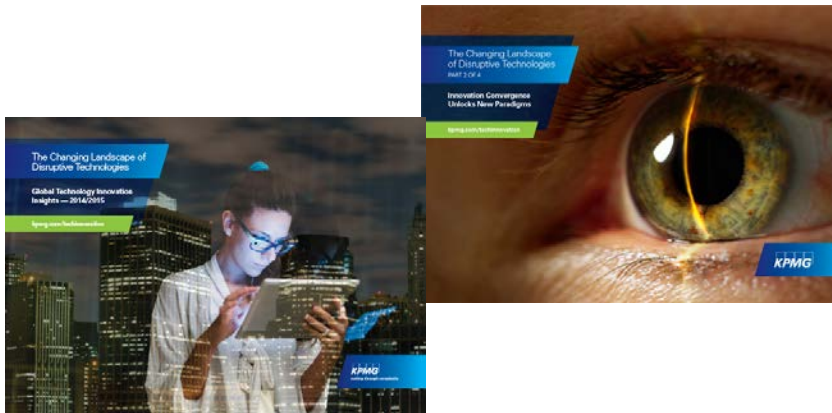
- Technology complexity
- Lack of experience in new technology/business model
- Displacement of existing tech roadmap
- Security

Source: KPMG Technology Innovation Survey 2015

The changing landscape of disruptive technologies

Publication

- **Global emerging innovation hubs - November 2015**
- **Innovation convergence unlocks new paradigms - January 2016**
- **Barriers to tech innovation adoption - April 2016**
- **Tech innovation management and start-up perspectives - April 2016**



kpmg.com/techinnovation

For more information, please contact:

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The changing landscape of disruptive technologies

Global Technology
Innovation Center



cutting through complexity

Making Money with \$IoT\$

Is it even Possible?

By John C. Mein,
VP of Business Development,
Petzila, Inc.

Getting to Profitability is Key

- Petzila Snapshot
- IoT opportunity
- Industrial vs. Consumer IoT?
- Funding -- Private money, VC, bootstrap?
- Development Options
- Controlling Costs
- Customer Service
- Data usage
- Exposure
- Margins
- Recurring Revenue
- Exit Plan



Petzila Company Snapshot

- Two co-founders
 - David Clark, CEO: serial entrepreneur & 25 years retail sales
 - Dr. Simon Milner, CTO: serial entrepreneur & 20 years tech guru
- Founded in 2013
- 12 full-time employees in San Jose HQ
- Funding through 3 sources
- Board of Directors: Dave, Simon plus:
 - Sam Spadafora (Chairman), Kapil Nanda (Infogain)
- Technical Advisory Board:
 - Rick Roth, Jim Ready, Steve Campbell, Joe Elliott



The Premier Treat Cam (PTC)

Solves
Separation Anxiety



Three 1.2-minute
check-ins
per day



Unique Customer Experience

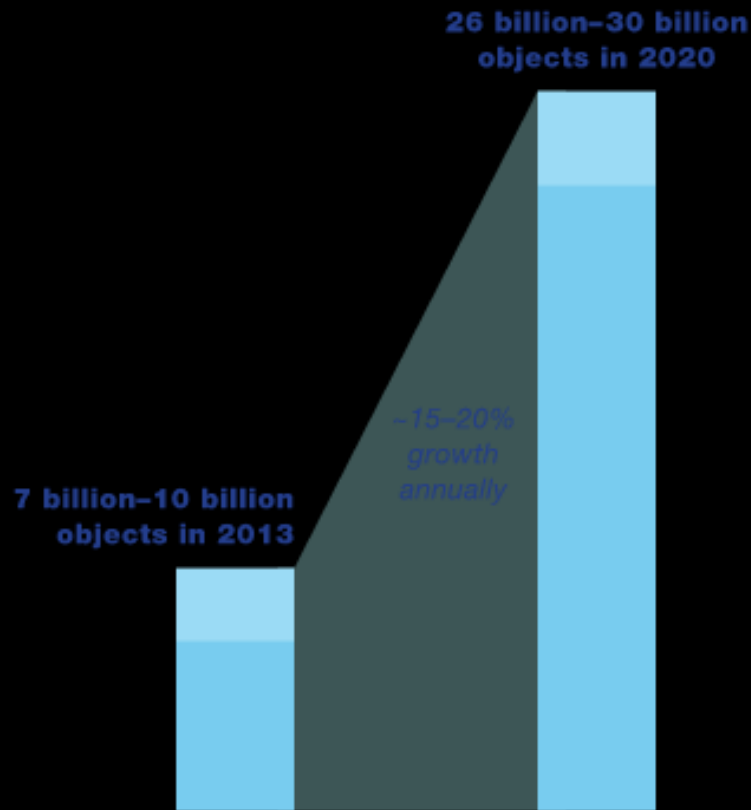
- See, speak, treat
- Content generator
- Temperature sensor
- Night vision
- Motion detection
- RFID authentication
- Treat, auto-replenishment
- **Real-time, rich data**





Huge Opportunities

Some 30 billion objects may be connected to the Internet of Things¹ by 2020.



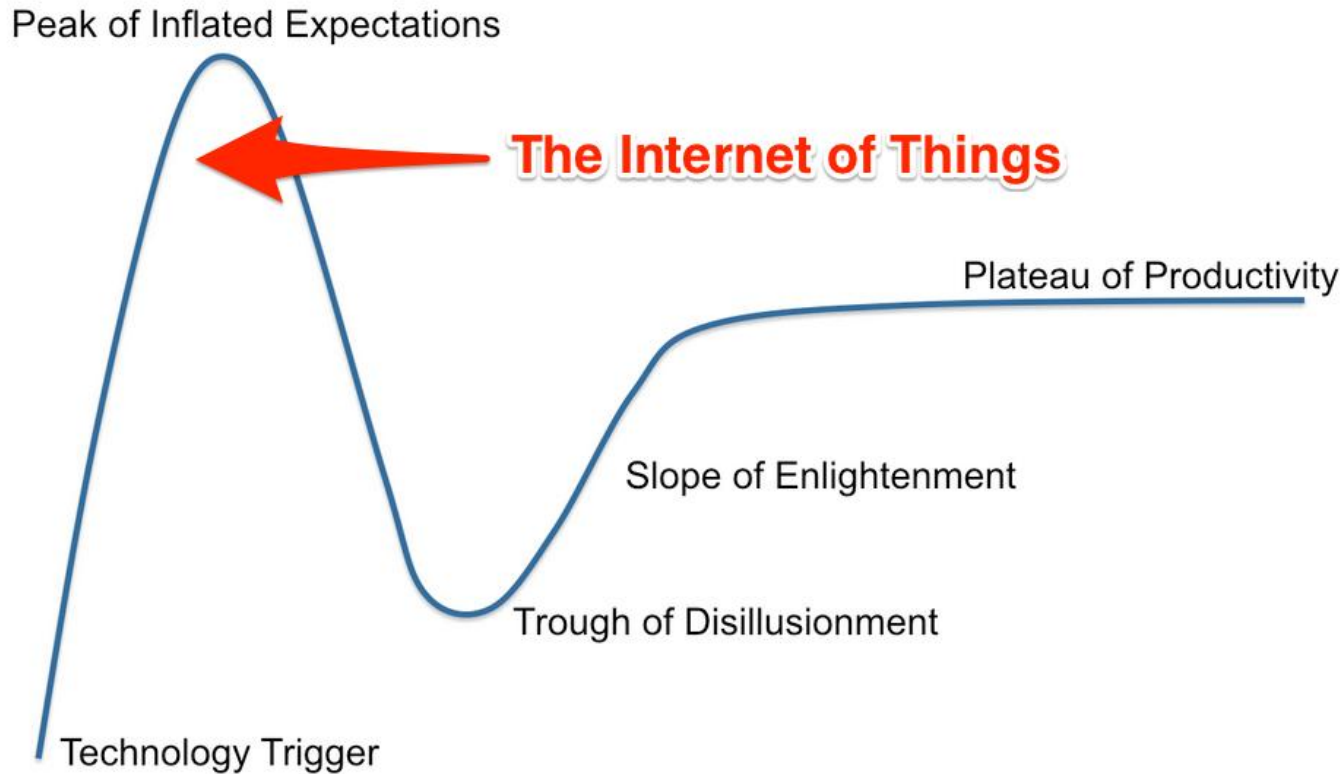
¹A networking of physical objects via embedded devices that collect and/or transmit information.

Source: Forecasts derived from ABI Research; expert interviews; Gartner; IDC; McKinsey analysis



We have only just begun...

Gartner Hype Cycle



2014 GARTNER HYPE CYCLE

Current as of July 2014

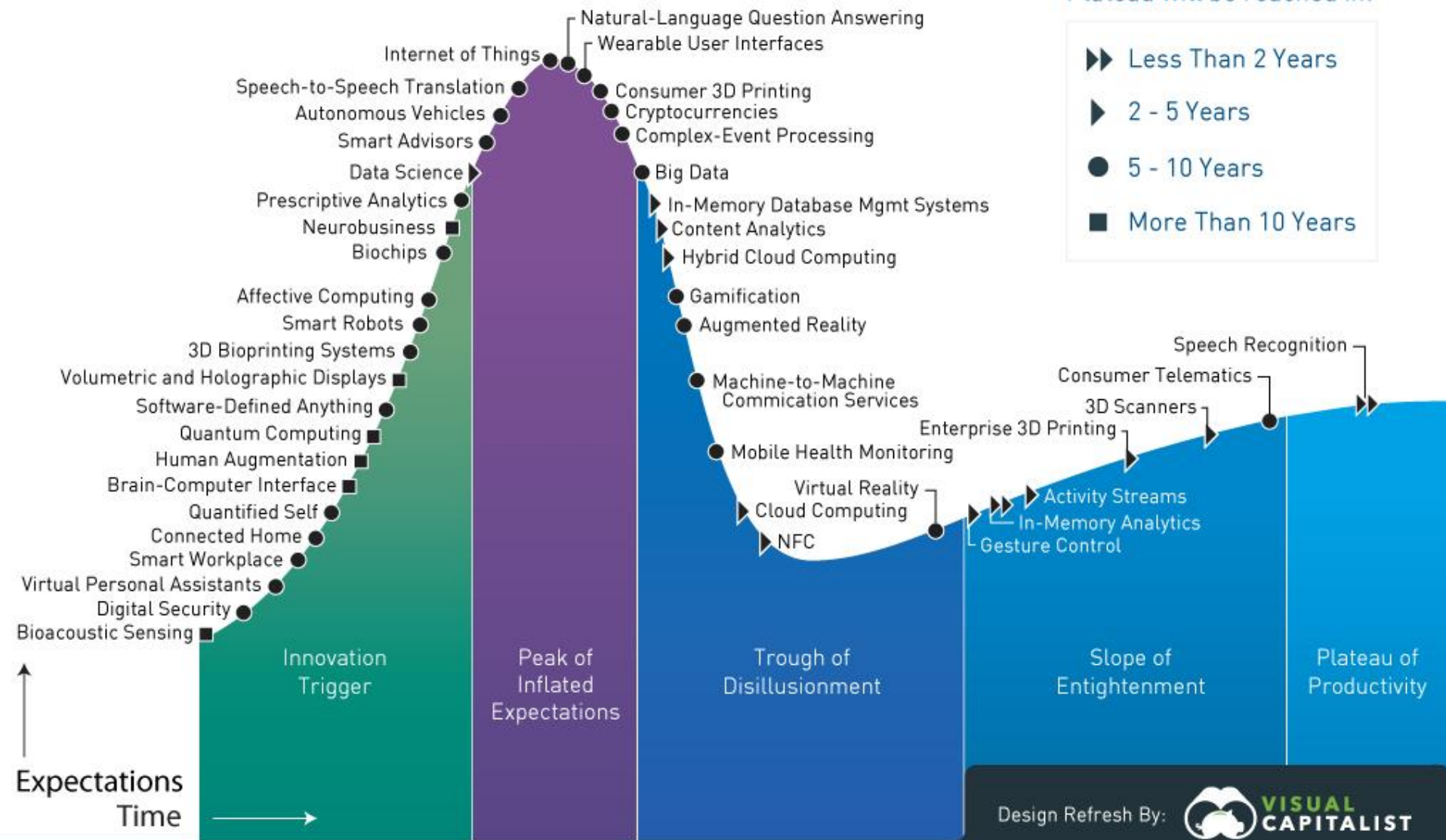


What is this?

Hype Cycles offer a snapshot of the relative maturity of technologies, IT methodologies and management disciplines. They highlight overhyped areas, estimate how long technologies and trends will take to reach maturity, and help organizations decide when to adopt.

Plateau will be reached in:

- ▶▶ Less Than 2 Years
- ▶ 2 - 5 Years
- 5 - 10 Years
- More Than 10 Years



Design Refresh By:





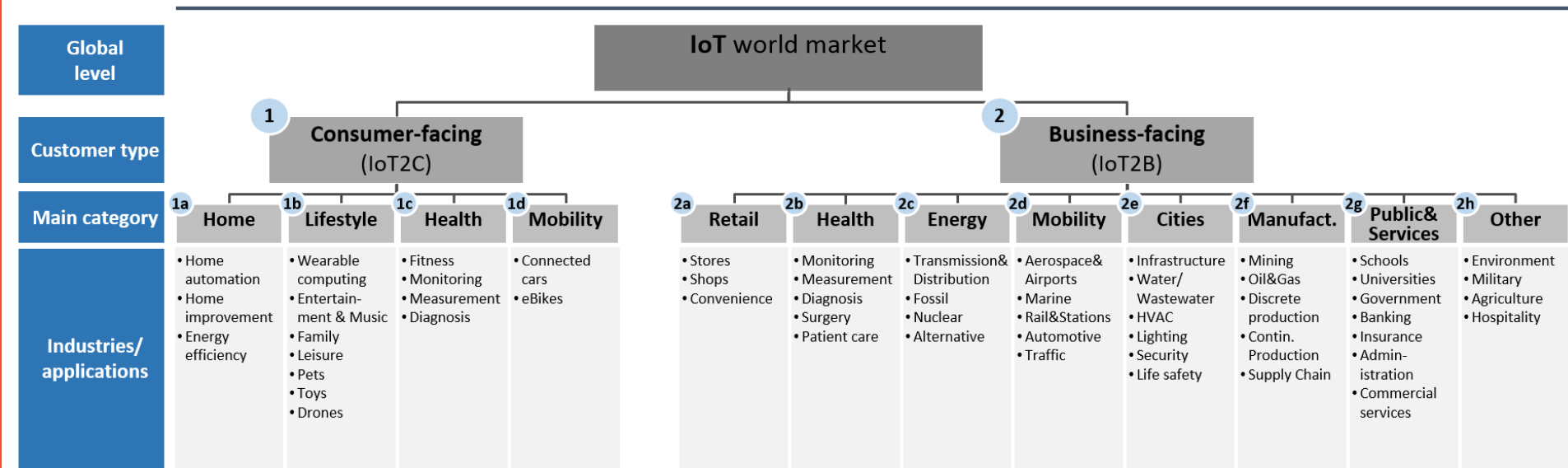
Industrial Vs. Consumer IoT?

- Industrial ~60% of the market
 - Factory Automation, reduce scheduled maintenance times
 - Agricultural
 - Airplanes
 - City Trash Cans, parking spaces
 - Street Lights
 - Track assets
- Consumer ~40% of the market
 - Security
 - Appliances
 - Cars
 - Lights
 - Hot water tank, furnace,
 - Pet Tech
 - Earthquake detection



Even more categories...

Internet of Things – Market segmentation by industry/application



We consider the following applications as adjacent to the Internet of Things but not part of it: Car sharing, ePayment



Business Case

- Must fulfill a need
- Must be compelling
- OK if others on the market—difference between pioneers and settlers
- Not a real market if no competitors





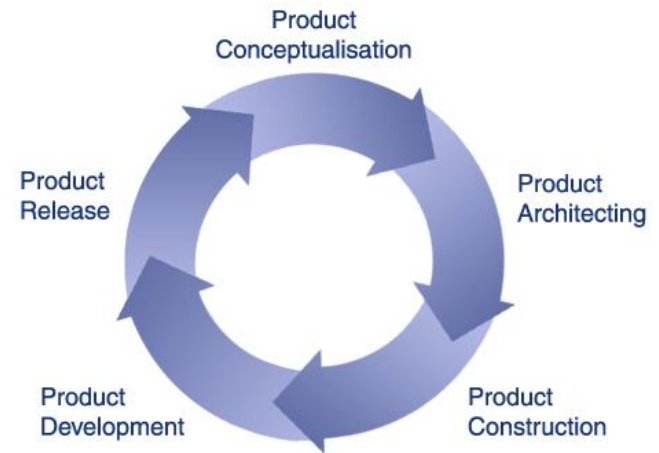
Funding Options

- Private – Friends and Family
 - Convertible Debt
 - Convertible Equity
- Strategic Investors
- Bootstrap
 - Home Equity
 - Growing revenues
- Traditional Venture Capital
- Angel Investment Organization
- VC Private Equity Group in Palo Alto as an example



Development Options

- Outsource
 - Software
 - Hardware
 - Keep key IP development
- Inhouse
 - Larger headcount
 - Employees vs. contractors
 - Interns – with few exceptions, must be paid
- MVP
 - If you are not embarrassed of your rev 1.0, you waited too long to ship it!
 - Use Beta Customers
 - Crowd funding is great for this



Controlling Costs

- Spend company money like it is your own money
- Where to manufacture? Near shore vs. Offshore
- Have suppliers and customers invest and give LOC





Customer Service

- Must be outstanding due to the Internet (i.e. Uber)
- Can be outsourced with backup
- Can be a differentiator
- Must have FAQs, email, and telephone support
- Inapp support highly desirable



What about all that Data?

- Stop me if you have heard this one:
 - Generate revenue from hardware sales
 - Sell an on-going subscription
 - Monetize user data through sale of that data
- The best use of data in the early days is to improve the customer experience
- You can monetize it later when you have a much larger database





Product Exposure

- Online, use SEO
 - Amazon (Launchpad)
 - Ebay
 - Your own website
- Brick and Mortar
 - B8ta
 - IoT outlets/departments
- Tradeshows
- Gadget Reviewers
- Advertising—various forms—Costs \$\$\$



Margin Expectations

- Consumer IoT
 - Retailers expect 30% to 50% (keystone)
- Industrial IoT
 - Distributors expect 10% to 20%
 - Reps 5%

$$\text{Gross Profit Margin} = \frac{(\text{Revenue} - \text{Cost of Goods Sold})}{\text{Revenue}}$$





Multiple Revenue Streams Possible

- Commerce
 - Initial Product
 - Consumables
 - Partners for companion products
- Support
 - Proactive
 - Reduce expensive in-field support
- Data
 - Improve customer support and experience
 - Feedback for product improvements
 - Sell to manufacturers
- Services
 - Home Service
 - Subscription Services
 - Remote Management



Exit Plan

- Do you need one? Should you have one?
- Options:
 - Remain private
 - Get bought
 - Go IPO
 - Go out of business



- Question: How many IoT startups have gone public? How many have been acquired?



