Presentation to IoT Silicon Valley, 2015-01-20 THEIR Things or OUR Things? Why we need an Indie IoT and how to get there Johannes Ernst CEO, Indie Computing Corp. @Johannes_Ernst]1	Usually "shiny new thing" presentation. This is not. Two goals: 1. Think about the big picture. Extrapolate. World you want for yourself and for your children? 2. I want you to think hard about what you are going to do about it. And then do it. I'll tell you want I'm doing.
<text><image/><image/><image/><image/><image/><image/></text>	2	Think about your own life. Show of hands for now. Now think in 10 years. 10-100 times: • all windows, doors, appliances, lots of cameras, presence detection. • toilet You walking around in your house. Think of the data you are generating, how much of it. Think how and where it flows.
	3	If 2025 is like today, this is true.



From Kai Kreuzer, head of Eclipse Smart Home project. Architecture prevents data integration.



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	5	Theory #1 :-)
 CEO: "We need this in the cloud" Dev: "Cool. How come?" CEO: "Because The Cloud™" Dev: "But what benefit are we lo-" CEO: "THE CLOOUUD!!!" 		
https://twitter.com/markkirschatein/status/555693921821810688		

IoT Silo pros & cons

For vendor	For customer
Hosting & bandwidth costs –	Access over public internet +
Easy application updates +	Simple + Cannot disagree –
No money in devices ++	l'm overpaying – –
Can monetize my customer's data ++	I'm being spied on
I have a veto over who gets to connect, yeah +	Need vendor permission to innovate and integrate – –
Customer lock-in because vendor has customer's data ++	I'm being held hostage – –

Maybe there's more to it.

Stated reason: access over the public internet / firewall / requires cloud.

But there are other reasons.

Note that benefits of architecture almost all for vendor. Downside almost all for customer.

Second-order effects

- Locks out startups and innovation.
- New things you do can be vetoed by somebody else.
- 🐓 Old things you do can now be vetoed by somebody else.
- Vendor becomes overlord. Customer becomes subject.
- Probody can tell whether your device has been hacked.
- Governments can demand real-time access to your home without you knowing.

It gets worse.

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Overlord in medieval times was lawgiver, judge and executive. We got separation of powers for good reason.

I call it overlord, because we have no separation of powers: IoT overlord decrees laws (terms of service, features), interprets them without your right of representation of appeal, and enforces them (can kick you off the service any time). You have no input into the process.

 Tet: redom Maxe - http://www.fredomhause.org/report/spec/fredom/au/
 more civil liberties



Whatever you think of spying by government in the US, most of the world is worse.

What we build in Silicon Valley will be used world-wide, and in many cases, not subject to 4th-amendment kind of protections. You can bet some governments will demand, and get, real-time views into your home. Imagine being a dissident discussing politics with your friend at home, or being a Christian in ISIS controlled territory.

Time to ask ourselves some questions.





Same architecture as for self-tracking apps:

Silos inhibit.

Personal Server needed.





Details. 14

Need industrial-strength OS for personal servers.

But needs to be open-source: no lock-in.







Call to Action	19 What I want you to do: Ask yourself this question. Ask others this question. Think about your children. Tell others.
Ask Overlord or Indie?	And do. Would love to collaborate with people who have same goals.
TellI don't want overlords to control my things. It only needs a slight change in architecture.	
Do Build, productize, partner and buy consistent with your values.	
Now go forth and take the world back from the overlords!	20

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