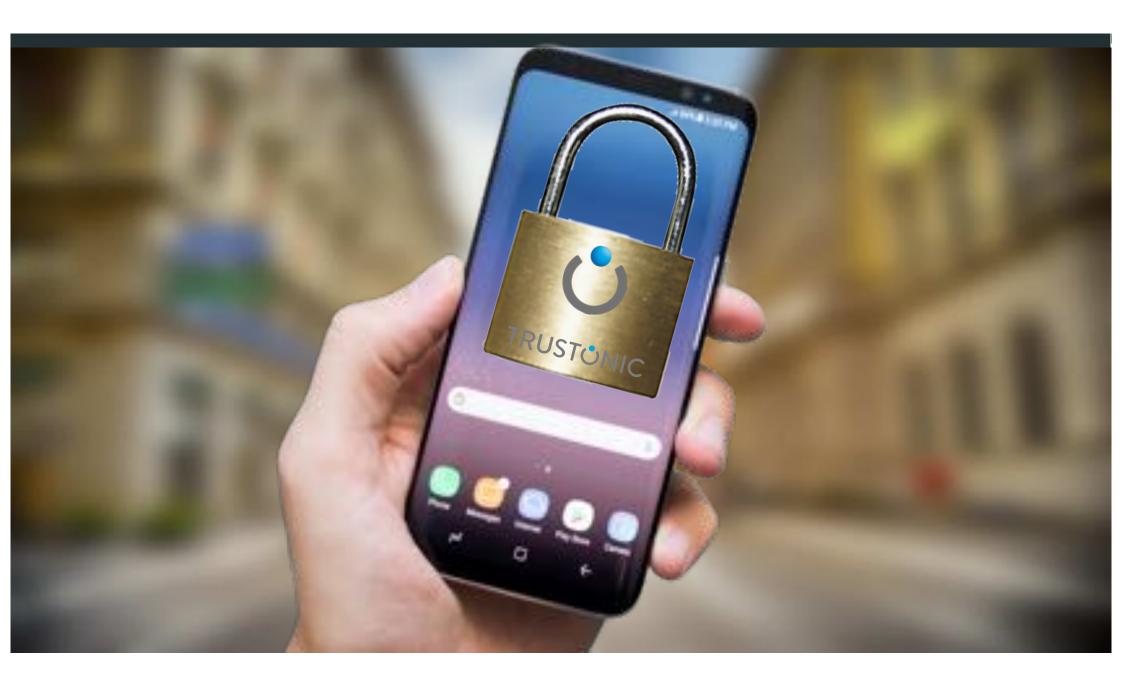
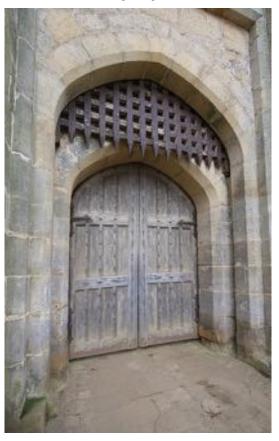


What do you



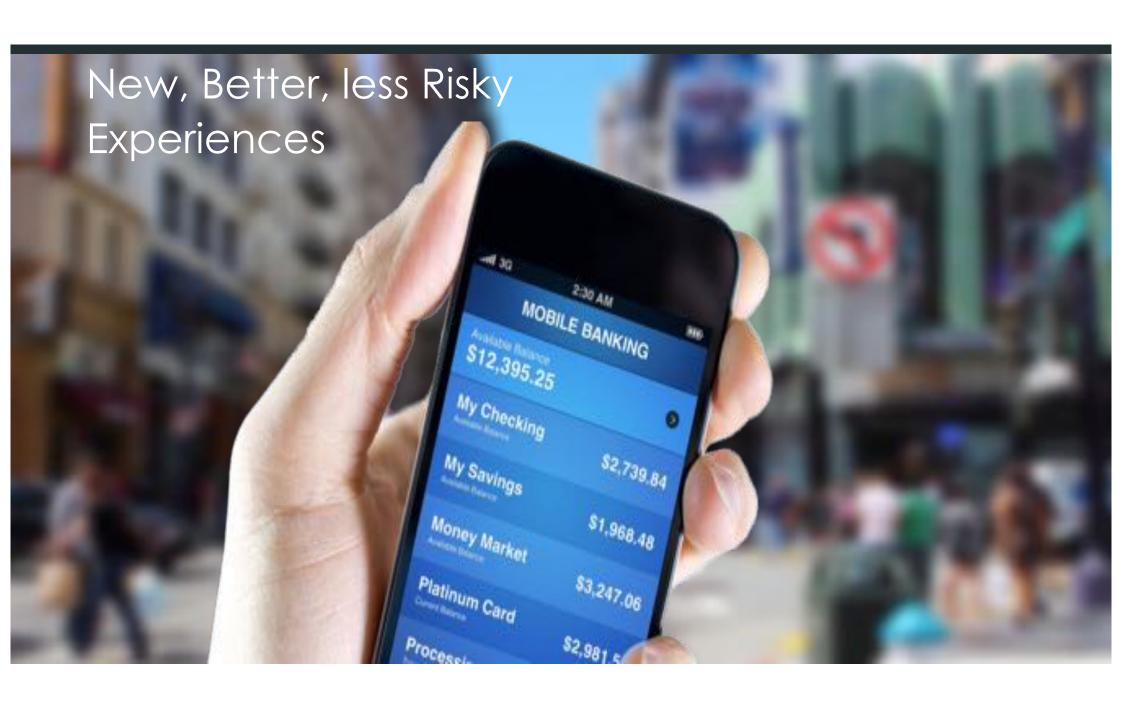
Two views of security

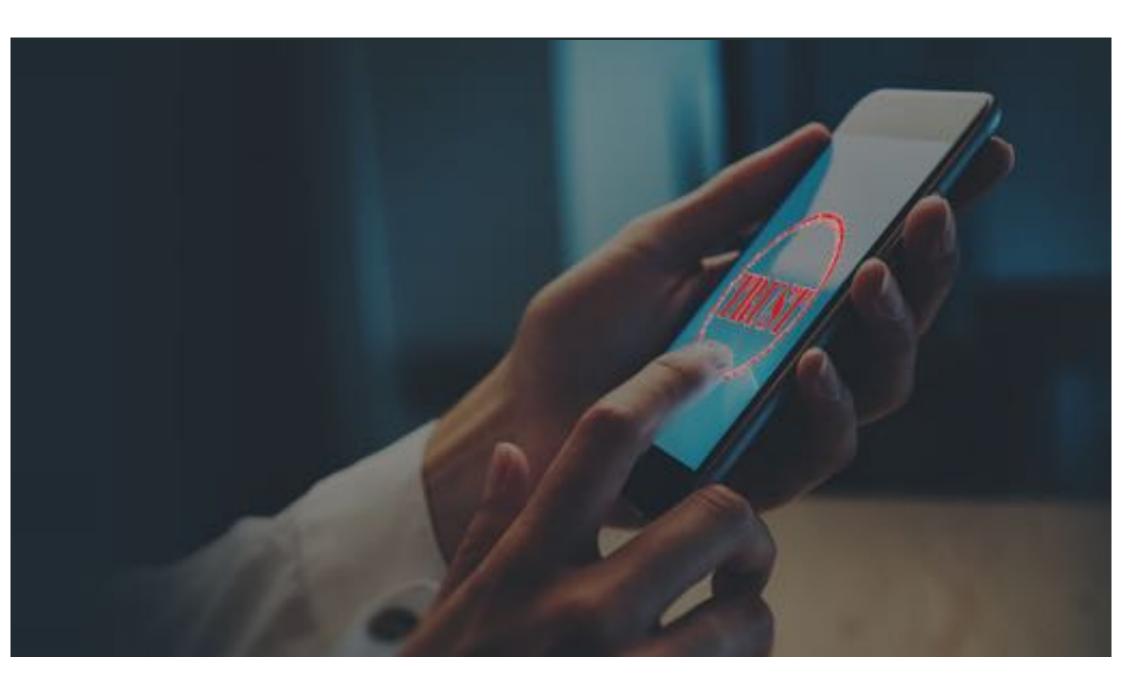
To keep you out

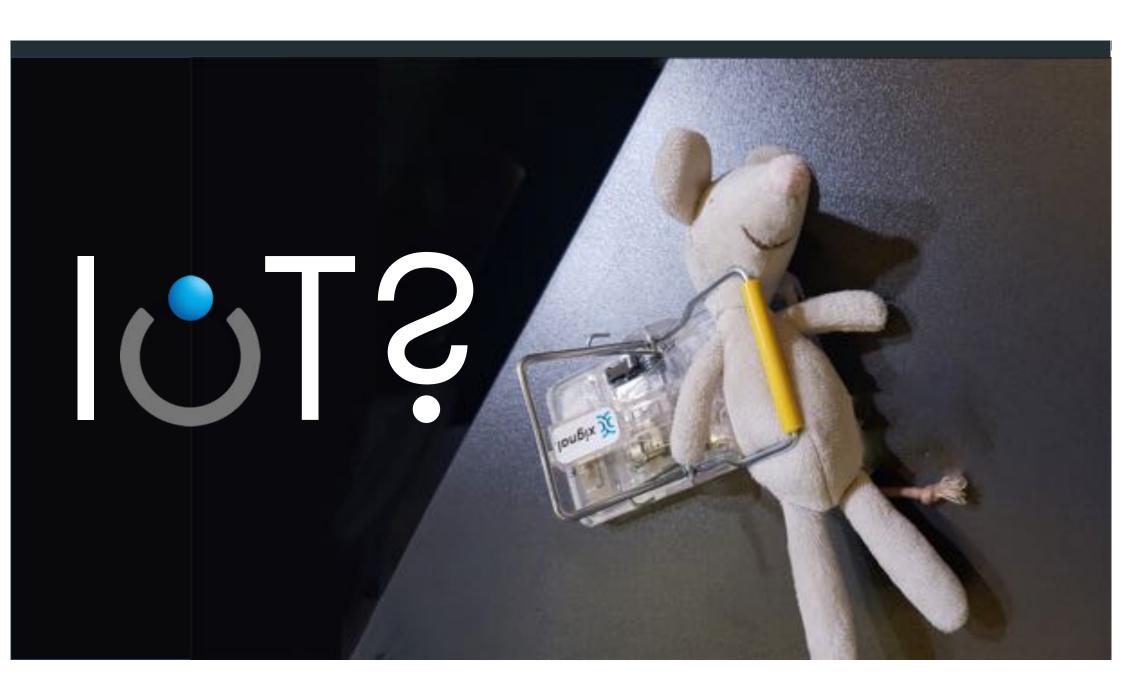


To let you in









IOT is

Really Big.

You just won't believe how vastly, hugely, Mind-bogglingly big it is.

I mean, you may think it is a long way down the road to the chemist, but that's peanuts to IOT!

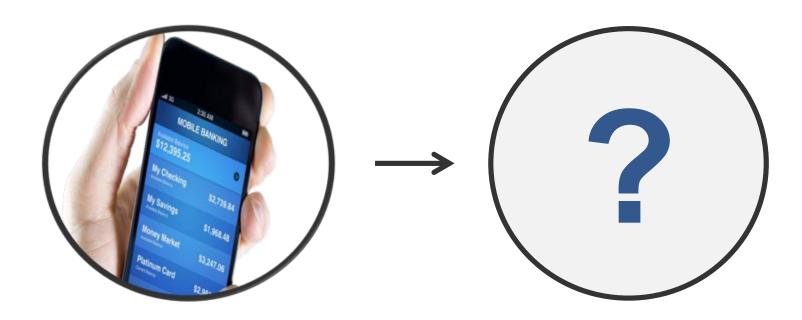
But what comes next....



Mobile devices are the culmination of what has become known as the third industrial revolution



But what comes next....

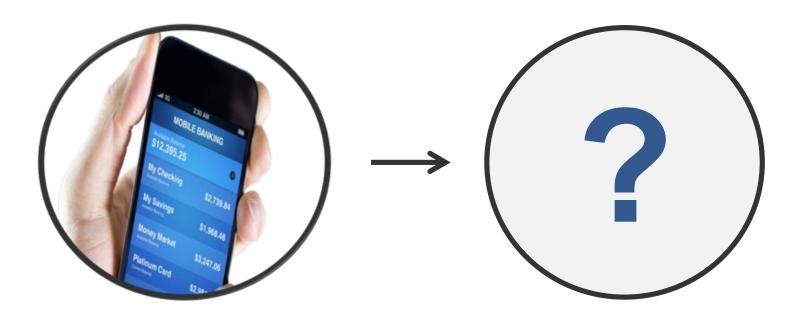


Mobile devices are the culmination of what has become known as the third industrial revolution

How do we apply what we have learned to the fourth industrial Revolution, IoT



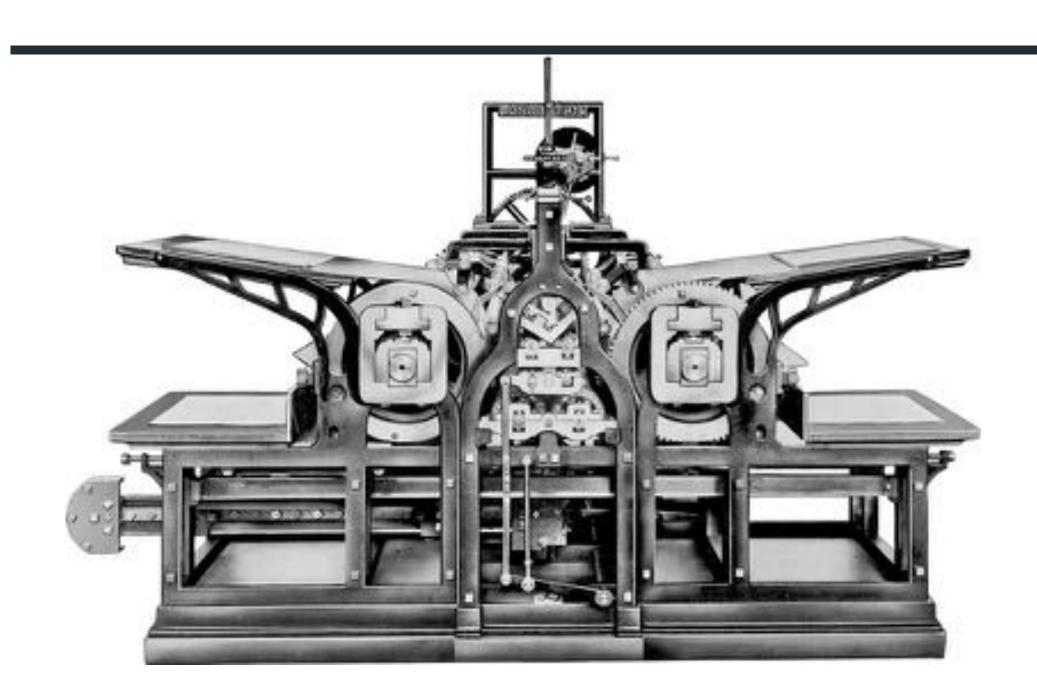
But what comes next....



In this talk we will look at what we can learn from the from the first three industrial revolutions and apply what we learn to the fourth.







This lead to a new industry of popular literature



With IoT, we are seeing a similar rush by companies to embrace the new technology





Does security on the end device really matter?



Kinibi & Kinibi-M for IoT

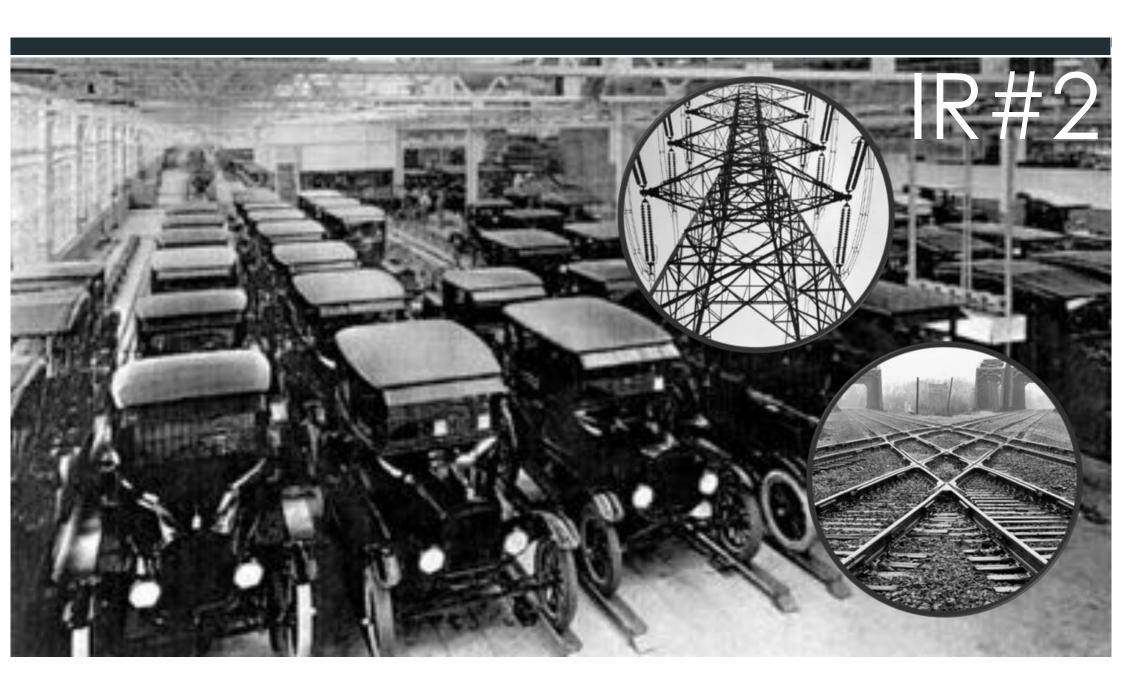


Full TEE-OS for A Class
Processors
Global Platform APIs
Flexible cryptography
Secure code separation...



Modular software for M Class Processors Global Platform *inspired* APIs Flexible cryptography Secure code separation...











Enabling device trust

Devices must be...

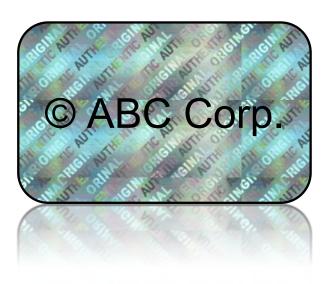
Legitimate – to avoid fraudulent clients and fake components and devices

Identifiable – linked to an account or purpose during operational lifetime.

Protected – Combating new threats and exploits require secure in-field automatic update



Trustonic introduces Digital Holograms

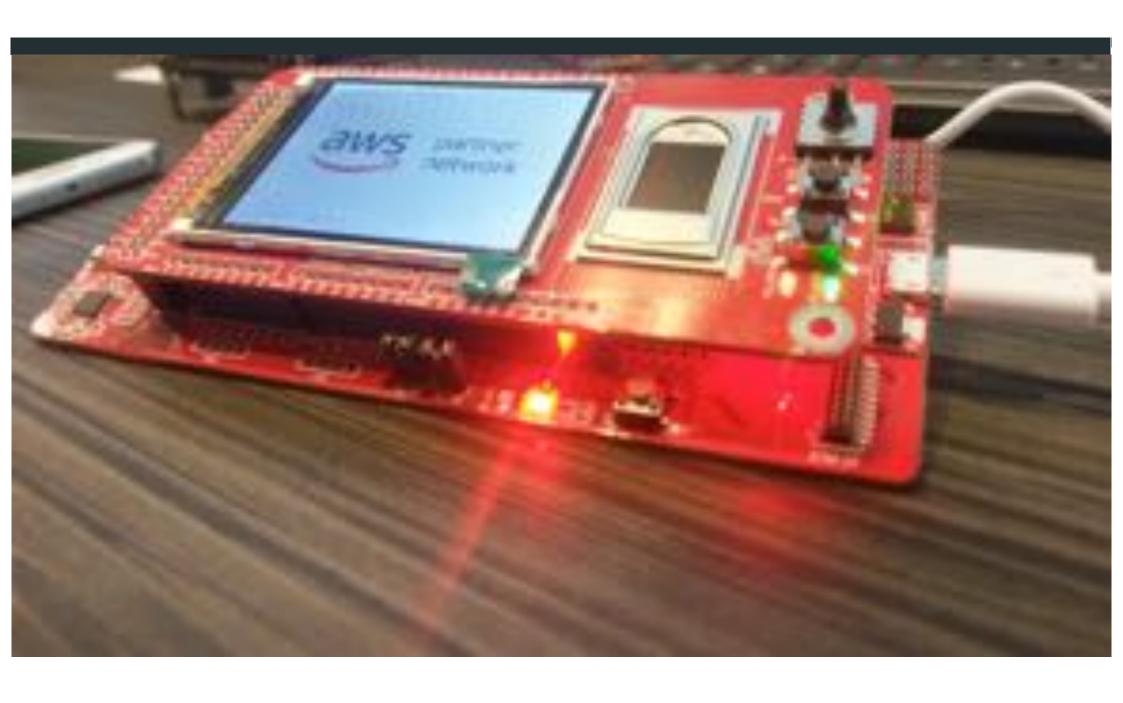


These are a new technology to allow anyone in the device manufacturing chain to securely and *irreversibly* attest to a stage of manufacture

Flexible "branding" to enable trust:

- Module Maker, QA, Model Identification
- Assignment to company/user
- Maintenance
- End of Life
- Etc.







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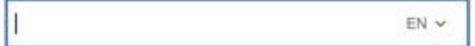
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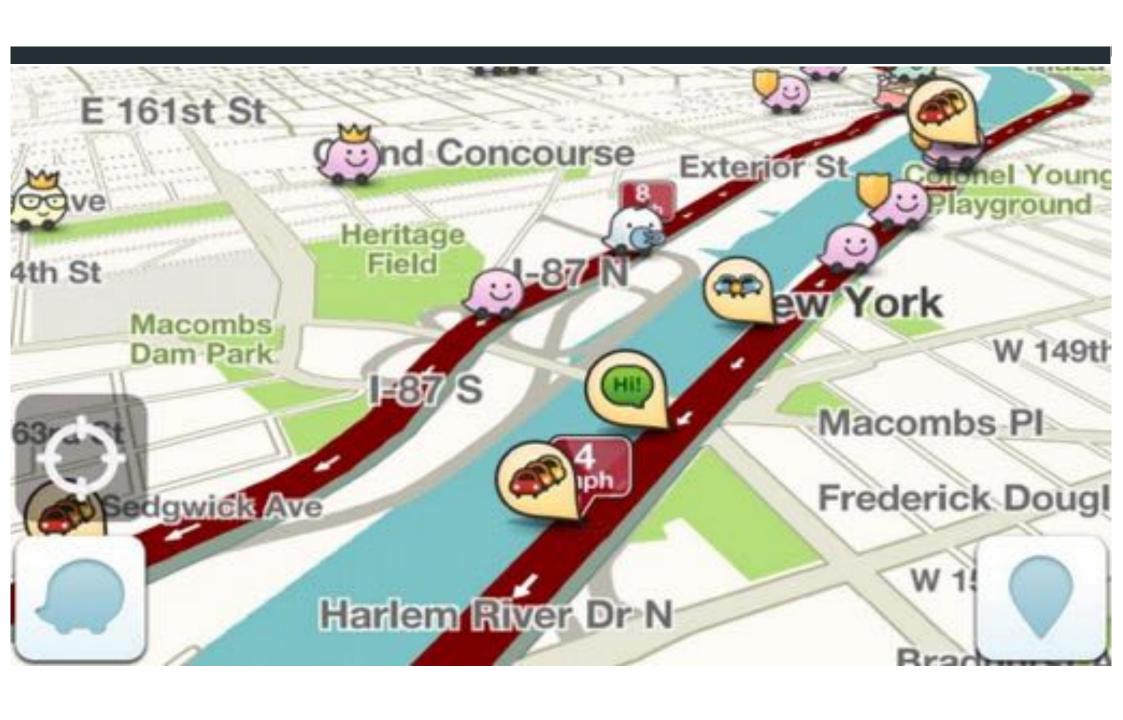


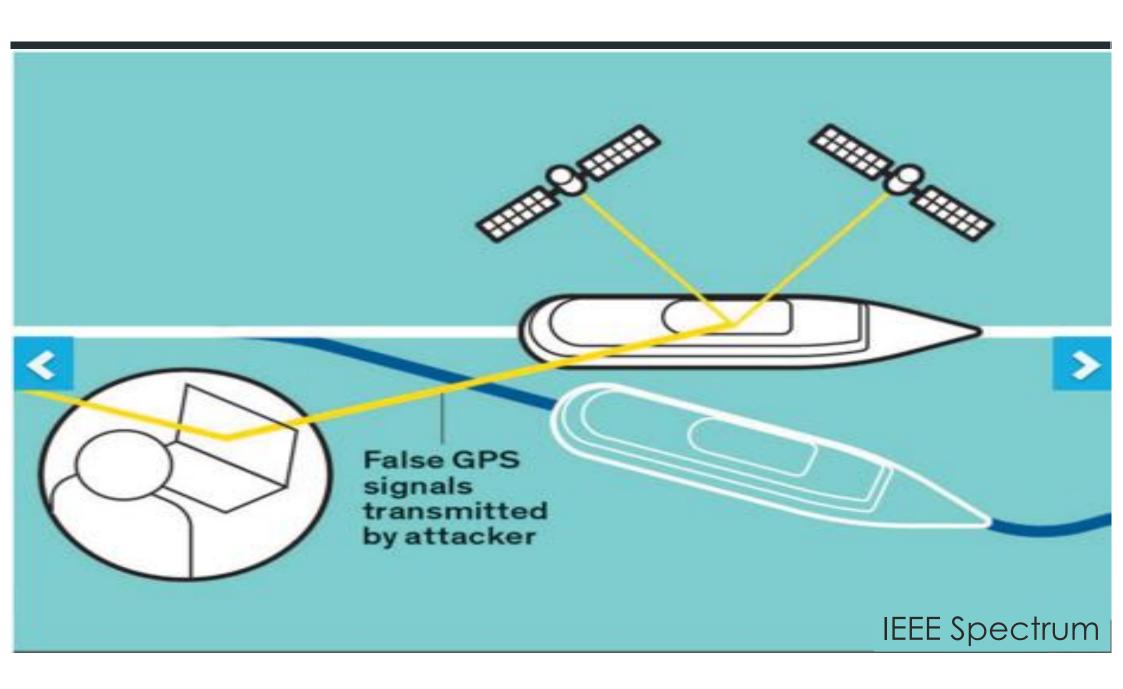
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regulations of rules of strategy Estandards Estrategy Practices & security governance







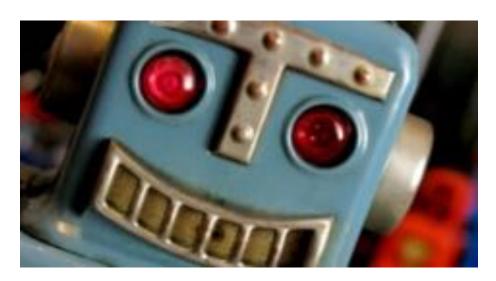
GLOBALPLATFORM





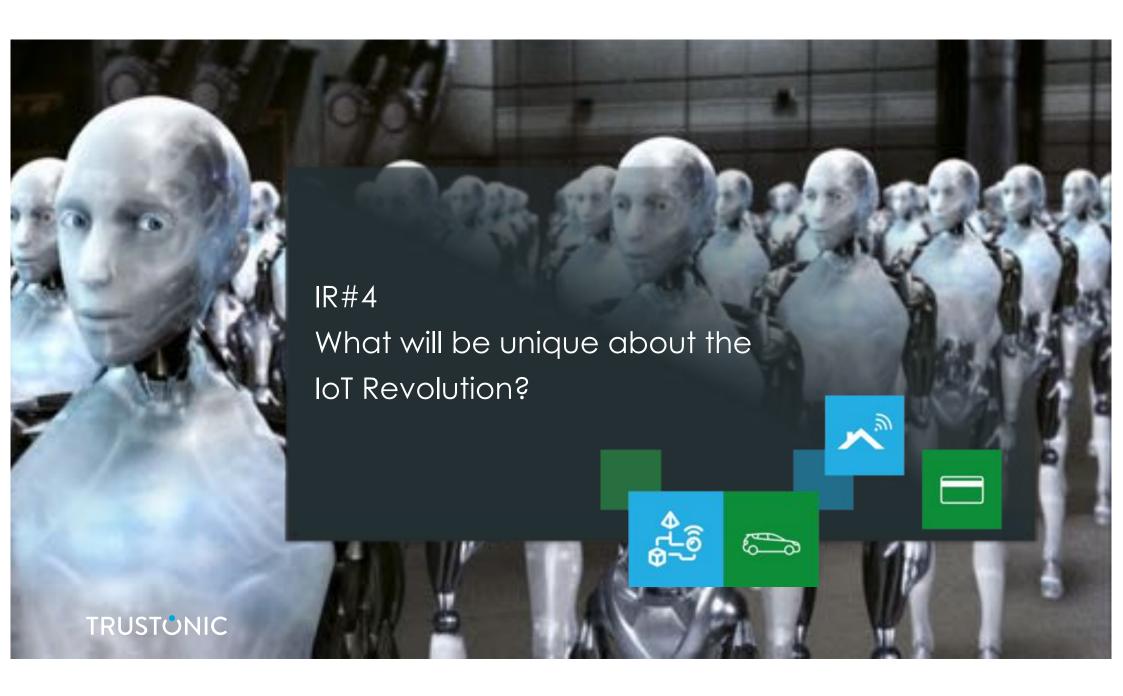


Establishing a framework for Trust



"Trust me I'm a Robot" & "A Matter of Policy"

https://www.trustonic.com/news/category/blog/





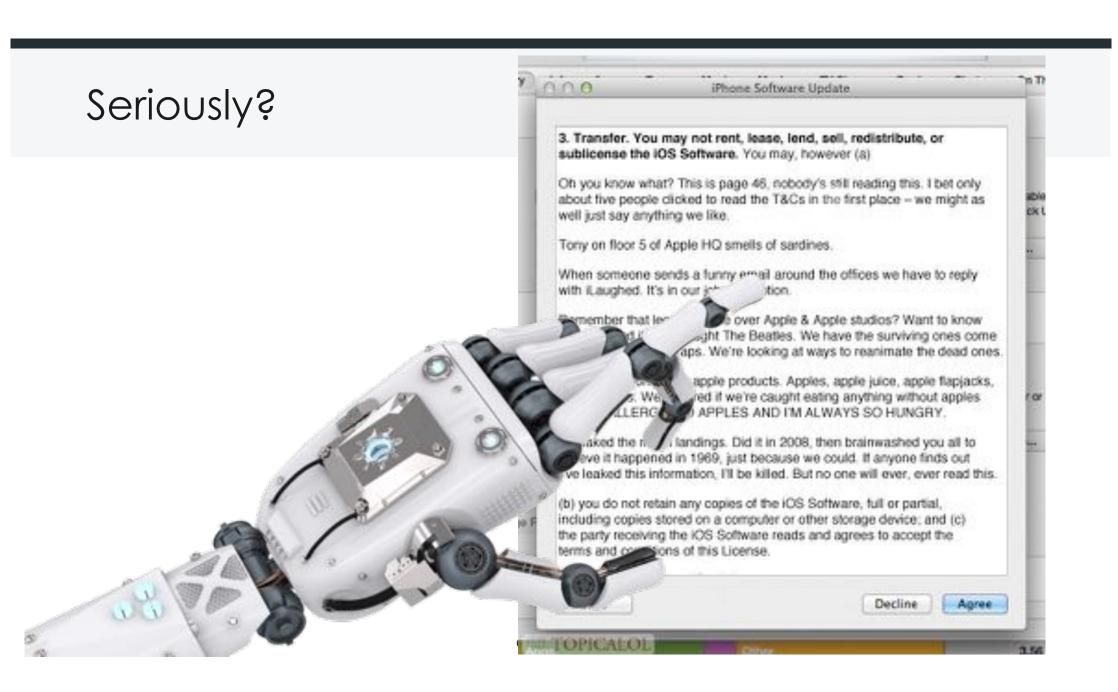
Not necessarily full blown robots...

But devices doing things that used to be preserve of humans

CONFIDENTIAL



39





Who might be behind a hack...

"End User"?

Get free electricity.

"Terrorists"?

Overload grid? Burn down house? ...

"Criminals"

Manipulate energy market

"Power Companies"

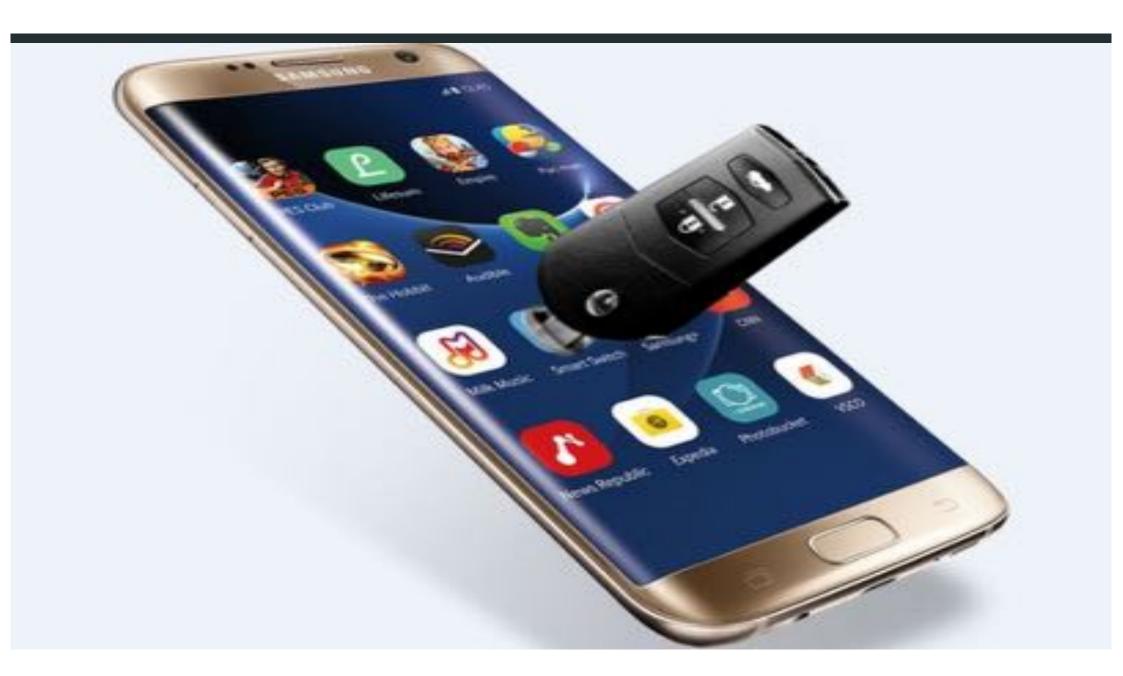
Use more power – work for supplier not consumer...

"Insurance Companies"

Spy on homeowners to determine risk

"Governments"

Enforce policies / "lifestyles". Overreach...



One penny on each transaction...



What we have learned...



Breadth of impact across industries

(e.g. Printing)

Unanticipated effects lead to new opportunities and challenges

Large change scale Leads to huge competition In new areas

(E.g. Consumerization)

Need to establish Trust in your brand Decentralized control changes more than technology

(E.g. Wikipedia→ Social Media)

Flexibility is needed as the rules will change as the technology evolves Non Human Actors change everything

(E.g. Smart Meter)

Significant new challenges to trust as 'armies' of devices are targeted by attackers





