

The Internet of Things

by
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Terminology

- “Pervasive computing”
 - “Ubiquitous computation”
 - “Everyware”
- Bruce Sterling’s disclaimer

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The Internet of Things

Enabling of all objects and devices to be found on the network and talk to each other...

Physical objects become part of the Internet and become trackable in space and time?

Connected systems, connected devices, connected data...

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Do you really need to call your shoes up?

Any TIME connection
Any PLACE connection
Any THING connection

Enabling new communication between people and things...

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The Internet of Things cont.

By embedding short-range mobile transceivers or chips into everyday items, enabling new forms of communication between people and things...

Transforming corporate, community and personal spheres



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Clarifying the questions...

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The Internet of Things Qs:

1. What are the challenges and concerns and risks we face as we think/develop the "Internet of things?"
2. What can we do in that world that could be powerful and useful?
3. Is it here yet?
4. What would it be like?

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Drivers

- Sensor technologies
- RFIDs
- Web 2.0 (flickr/blogs/wikipedia/youtube)
"loose grab bag of concepts" - sharing/social searching and social bookmarking
- Smart things
- Nanotechnology

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Unsolved problem of today

Security/Privacy

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Security

We cannot get the security model right today!

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Unsolved questions

Almost every week there is a security announcement about flaws in MS windows

If you google up your shoes, and you get a security alert, do you upgrade your shoes and buy another pair?

Who else can google them?

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Amputation(al) security

Biosecurity or biotechnology

finger prints



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To track or not to track in time, space

To be or Not to be?



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What would it look like?

- Will it be (network) patchy and limited or smooth - ubiquitous?
- Is it more about sorting, tagging, searching and researching than about than "AI"
- Why do we still have 5 remote controls in our room?

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Conclusions

By 2030?

Technology is not required to solve 5 remote controls in your house

Understand the huge risks that come with

Technology and markets cannot exist independently of the over-arching principles of a social and ethical system

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Conclusion cont...

"Be conservative in what you do and liberal in which you accept from others"

Jon Postel

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Conclusion...

"Future is here, it's just not evenly distributed"

William Gibson

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Thank You!

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