W3C's Mobile Web Initiative:
Towards the Web of Things

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This work is part of the MobiWeb 2.0 project supported by the European Union's 7th Research Framework Programme (FP7)
• Consortium, 420 members
• Founded and directed by Tim Berners-Lee
• Standards: XML, HTML, Semantic Web, VoiceXML, Web Services …
• Cooperation between MIT, ERCIM, Keio
• Strong European presence (~44% of staff Euro-based)
Internet of Things

• Sekai Camera
• Get weather information from straight from sensor, not Web server
• Project slides from mobile phone
Development

- Native Applications?
- Java?
- Web Technology!
Mobile Web Applications

• Desktop: Yahoo Mail, Google maps, …
• Written using HTML, CSS, Javascript, …
• Advantages over native, Java, …
  – Easy to deploy and update: Browser reload
  – Incremental updates simple ("perpetual beta")
  – Big developer base, quick and cheap to develop
• Ongoing: W3C Geolocation, camera API, …
Web of Things

• Natural continuation of mobile Web
• Web brought Internet 1.0 to "average citizen"
• Web applications will play similar role for Internet of Things
• Needed: More Web standards
  – Device-to-device communication
  – Model-based UI design
  – ...
Barcodes and Web

- Semapedia

Image source: http://www.flickr.com/photos/think_mobi/391529264/
Participate

• Follow W3C work towards “Web of Things”
  http://tinyurl.com/2x72ke
• Join W3C Mobile Web Initiative
• W3C API Security Workshop: 10 Dec, London
• Contact: ph@w3.org