

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

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# W3C



- 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/](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](mailto:ph@w3.org)