



# The Real World Internet

[rwi.future-internet.eu](http://rwi.future-internet.eu)

The term Internet of Things (IoT) spawned from the idea of Radio Frequency Identification Tags (RFID) in every object, allowing them to be identified and possibly located. Today the term has transformed into a much broader vision – the Real World Internet. A vision of blurring the lines between the real and the digital world, providing an accurate understanding of situations and status of places, objects and people in digital format through the use of a very diverse set of technologies, including sensor and actuator devices, embedded devices, RFID, collectively termed Networked Embedded Devices (NEDs).

The Real World Internet (RWI) community of the Future Internet Assembly strives to provide a research roadmap for FP7 and FP8 and to build a community of researchers dedicated to making the Real World Internet/Internet of Things a reality and integral part of the Future Internet.

The activities of the RWI can be broadly summarised into five topics:

<p style="text-align: center;"><b>Networked Knowledge</b></p> <ul style="list-style-type: none"> <li>▪ Data/Information/Knowledge</li> <li>▪ Representation/Modelling</li> <li>▪ Discovery/Rendezvous</li> <li>▪ Composition/Orchestration</li> <li>▪ Identity/Trust</li> <li>▪ Provenance/Tractability</li> </ul>	<p style="text-align: center;"><b>Socio-Economic Aspects</b></p> <ul style="list-style-type: none"> <li>▪ Standardization</li> <li>▪ Governance</li> <li>▪ Legal implication</li> <li>▪ Sustainability,</li> <li>▪ Usability</li> <li>▪ Business value/roles/models</li> </ul>
<p style="text-align: center;"><b>Network Architecture</b></p> <ul style="list-style-type: none"> <li>▪ Management</li> <li>▪ Communication and Routing</li> <li>▪ Network Interoperability</li> <li>▪ Trust/Security</li> </ul>	<p style="text-align: center;"><b>Device Technologies</b></p> <ul style="list-style-type: none"> <li>▪ Identification problem</li> <li>▪ Software Interoperability</li> <li>▪ Smart Devices</li> <li>▪ Safety and Actuation</li> <li>▪ Radio Access Technologies</li> </ul>
<p><b>Requirements for Future IoT Test Bed Facilities</b></p>	

The wiki page of the RWI contains the most up to date position paper, scenarios, list of participants and projects, meeting minutes and outcomes of the three Future Internet Assembly events in Bled, Madrid and Prague.

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If you are interested in joining the Real World Internet community, contact Mirko Presser ([m.presser@surrey.ac.uk](mailto:m.presser@surrey.ac.uk)). We are looking forward to welcoming you.