

European IoT Research and Innovation

The [IERC-Internet of Things European Research Cluster](#) [6] groups together the [IoT projects](#) [7] funded by the European research framework programs, as well as national IoT initiatives.

The requirements of IoT will also be fed into the research on empowering [network technologies](#) [8], like [5G Mobiles](#) [9]. [FIWARE](#) [10] will be one of the platforms to support building blocks useful for IoT applications, while [Cloud Computing](#) [11] will provide objects with service and storage resources. On the application side, initiatives like Sensing Enterprise and [Factory of the Future](#) [12] help companies use the technology to innovate, while experimental facilities like [FIRE](#) [13] are available for large-scale testing.

In order to manage content and the related large amount of information, the [Open Data](#) [14] strategy will be instrumental. A European Data [Forum](#) [15] was established in 2012 to contribute to it.

IoT Large Scale pilots for testing and deployment

The important investments on Internet of Things technologies which have already been taken at EU and Member States levels, reveals the next big step towards implementation of large scale pilots. The European Commission launched a [series of IoT large scale pilots](#) [16] in the areas of wearables, assisted living, connected vehicles, smart cities, smart agriculture and water management supported by [Horizon 2020](#). [17]

The pilots will not be designed as a purely technological exercise. They will deliver IoT practical solutions in terms of applicable technology and standards, privacy and security, business models as well as usability. The pilots should also serve to deduce methodologies to assess privacy and security impacts of IoT.

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