Integrated digital.me Userware for the Intelligent, Intuitive, and Trust-Enhancing Management of the User's Personal Information Sphere in Digital and Social Environments

di.me European Project, STREP, ID 257787
co-funded by European Union
di.me background

- The use and disclosure of personal information for private and business life is a major trend in information society.

- Advantages like enhancing social contacts, personalising services and products compromise with notable privacy risks arising from the user’s loss of control over their personal data and digital footprints.

- Large amounts of scattered personal data lead to information overload, disorientation and loss of efficiency
di.me objectives

- integrating all personal data in a personal sphere by a single, user-controlled point of access: the di.me userware.

- This tool will run on the user’s devices, and rely on scalable peer-to-peer communication in order to avoid external storage of personal data as far as possible and to enhance data portability.
di.me objectives

- **External services** (e.g. web-communities, enterprise systems) will be integrated via gateways.

- Communication to individuals and services will make use of **digital faces**, i.e. user data selected for a particular purpose and context.
di.me concept

- A **device-centric approach** will be addressed by adopting the three building blocks of the technical infrastructure required: a shared vision on software architecture, an efficient and adaptive communication layer due to flexible network modes and a common language and effective shared knowledge due to semantic data portability.

- An **open trust, privacy, and security infrastructure** will enable the user to securely use personal data. Trust metrics will guide the user to avoid risky behaviour. Anonymous data disclosure, data withdrawal and policies will foster privacy and trust.

- A **semantic core** with data mining, semantic mapping and reasoning, will support an intelligent management of personal data and communication history including recommendations how to take advantage of the personal sphere.

- **Intelligent user interfaces** on desktop and mobile devices will promote the intuitive usage of powerful semantic and privacy-technologies and will enable the user to monitor, control, and interpret personal data.
di.me concept
Three scenarios will be implemented where leading industrial partners will involve their customers for validating the project’s artefacts with consumers and professional users:

- "di.me for Private Users in all Life Spheres“

- "di.me on Business Conferences and Smart Events“

- "di.me for Enterprise Customer Relationship Management"
di.me impact

- di.me will **develop an advanced userware** for faster and more effective knowledge acquisition, coordination, sharing and processing in a dynamic environment through context aware provision of knowledge.

- di.me will **boost EU professionals‘ business networking activities**, providing them automatic and intuitive means to organise, disclose, and retrieve professional information, facilitating them to obtain valuable new contacts and to better manage existing ones, in short, to reach their objectives with reduced time and effort.

- di.me will **strengthen EU leadership in the field of advanced digital identity management tools for business users**, which will contribute to the creation of a friendlier environment for smarter, cheaper and more effective networking and information exchanging in business events. This will also foster the adoption of such solutions by professionals from other sectors besides the ICT one.
### di.me workplan

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<th>digital.me Objectives</th>
<th>Workpackages</th>
<th>Consortium Partners (only main WP responsibilities)</th>
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<td><strong>Objective 1:</strong> Develop an Integrated Personal Information Sphere Management Tool under Full User-Control: the digital.me userware</td>
<td>WP6 digital.me Userware</td>
<td>Fraunhofer</td>
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<td><strong>Objective 2:</strong> Develop a Semantic Core for Processing the Personal Information Sphere</td>
<td>WP3 Semantic Processing of Personal Data</td>
<td>BDCT TI CAS</td>
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<td><strong>Objective 3:</strong> Develop an Open and Accessible Infrastructure for a Secure, Privacy-preserving, and Trust-enhancing Use of Personal Data.</td>
<td>WP4 Trust, Privacy and Security</td>
<td>NUIG TI USiegen</td>
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<td><strong>Objective 4:</strong> Develop Intelligent, Reliable, Intuitive User Interfaces for Personal Sphere Management.</td>
<td>WP5 Intelligent User Interfaces</td>
<td>USiegen BDCT CAS</td>
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<td><strong>Objective 5:</strong> Develop and Apply Large-Scale Quantitative Metrics for Monitoring the Usability and User Acceptance of Personal Sphere Management</td>
<td>WP2 User Driven Design, Quantit. Validation</td>
<td>Fraunhofer YM NUIG</td>
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di.me consortium partners

- **Coordinator:**
  - Fraunhofer IAO
  - Fraunhofer Institute for Industrial Engineering
  - Germany

- **Partners:**
  - AMETIC
  - Spain
  - CAS SOFTWARE
  - Germany
  - Fundació Privada Barcelona Digital Centre TECNOLOGIC
  - Spain
  - National University of Ireland, Galway
  - Ireland
  - Telecom Italia S.P.A
  - Italy
  - University of Siegen
  - Germany
  - YellowMap AG
  - Germany