The SPECIAL project will address the contradiction between Big Data innovation and privacy-aware data protection by proposing a technical solution that makes both of these goals realistic. We will develop technology that: (i) supports the acquisition of user consent at collection time and the recording of both data and metadata (consent, policies, event data, context) according to legislative and user-specified policies; (ii) caters for privacy-aware, secure workflows that include usage/access control, transparency and compliance verification; (iii) demonstrates robustness in terms of performance, scalability and security all of which are necessary to support privacy preserving innovation in Big Data environments; and (iv) provides a dashboard with feedback and control features that make privacy in Big Data comprehensible and manageable for data subjects, controllers, and processors. SPECIAL shall allow citizens and organisations to share more data, while guaranteeing data protection compliance, thus enabling both trust and the creation of valuable new insights from shared data. Our vision will be realised and validated via real world use cases that - in order to be viable - need to overcome current challenges concerning the processing and sharing of data in a privacy preserving manner. In order to realise this vision, we will combine and significantly extend big data architectures to handle Linked Data, harness them with sticky policies as well as scalable queryable encryption, and develop advanced user interaction and control.
features: SPECIAL will build on top of the Big Data Europe and PrimeLife Projects, exploit their results, and further advance the state of the art of privacy enhancing technologies.

Field of Science

/natural sciences/computer and information sciences/data science/big data
/natural sciences/computer and information sciences/computer security/data protection

Programme(s)

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Topic(s)

ICT-18-2016 - Big data PPP: privacy-preserving big data technologies

Call for proposal

H2020-ICT-2016-1

See other projects for this call

Funding Scheme

RIA - Research and Innovation action

Coordinator

GEIE ERCIM
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Activity type
Other
EU Contribution
€ 672 170

Website
Contact the organisation

Participants (9)
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<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
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<tr>
<td>WIRTSCHAFTSUNIVERSITAT WIEN</td>
<td>€ 650 737.50</td>
<td>Welthandelsplatz 1 1020 Wien</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>Centro Regionale Information Communication Technology srl</td>
<td>€ 449 375</td>
<td>Viale Traiano Palazzo Ex Poste Snc 82100 Benevento</td>
<td>Research Organisations</td>
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<tr>
<td>TECHNISCHE UNIVERSITAT BERLIN</td>
<td>€ 343 000</td>
<td>Strasse Des 17 Juni 135 10623 Berlin</td>
<td>Higher or Secondary Education Establishments</td>
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<td>UNABHANGIGES LANDESZENTRUM FUR DATENSCHUTZ</td>
<td>€ 361 950</td>
<td>Holstenstrasse 98 24103 Kiel</td>
<td>Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)</td>
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Contact the organisation
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<td>TENFORCE BVBA</td>
<td>Havenkant 38, 3000 Leuven</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
<td>€ 622 406,25</td>
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<td>DEUTSCHE TELEKOM AG</td>
<td>Friedrich-Ebert-Allee 140, 53113 Bonn</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>THOMSON REUTERS GROUP LIMITED</td>
<td>30 South Colonnade Canary Wharf The Thomson Reuters Building, E14 5ep London</td>
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<td>€ 179 116,11</td>
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<td>PROXIMUS</td>
<td>Boulevard Du Roi Albert li 27, 1030 Bruxelles</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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REFINITIV LIMITED

United Kingdom

Address
The Thomson Reuters
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Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)

EU Contribution
€ 165 883,89

Contact the organisation

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