



European
Commission

Towards a Cloud of Public Services



Public administrations are often organised in silos: monolithic architecture models make it difficult to re-use services for the development of new applications. What if these services were connected and the access to information open? The European Commission is piloting the potential of a **Cloud of public services** for the development and the delivery of more flexible public services by combining building blocks and allowing service sharing between public and private providers. Ultimately the citizens should benefit from more personalised public services, provided also by third-party actors using public information. In turn, public administrations can experience savings and increased flexibility in services design and provision.



<https://ec.europa.eu/digital-agenda/en/life-and-work/public-services>

Projects 2011



In 2011 the Commission launched under the **Competitiveness and Innovation (CIP)** ICT programme a call aiming at transforming public administration service delivery, based on the usage of new ICT technologies such as service oriented architecture (SOA) and cloud infrastructures.

The aim was to break silos, and increase efficiencies.

Environmental impact of economic activities through the environmental permits process



Economic activities with substantial environmental impact - from wind farms to nuclear power plants - need permits from their local or regional authority. eEnviPer brings this process into the 21st century and provides an **integrated web-based platform for the application, administration and consultation of environmental permits.**

The pilots in Puglia (Italy), Crete (Greece), Niğde (Turkey), Indjija (Serbia) and Krapina-Zagorje (Croatia) integrated existing governmental data sources and geographical information systems with Web 2.0 participation platforms and workflow solutions. The resulting single multi-purpose cloud platform, based on service-oriented architecture, is now available to authorities across Europe as software as a service (SaaS). As of April 2014, the eEnviPer software solution is commercially available in Croatia, Italy, Greece, Serbia and Turkey and the identification of future opportunities is underway.

In June 2014 DRAXIS SA (Coordinator) signed a contract with the Greek Ministry of Environment, Energy and Climate Change for the implementation of the eEnviPer solution for the Greek region. The full implementation of eEnviPer for the Greek environmental permitting procedures is expected to be realised in autumn 2014. More countries have expressed their interest as well.

www.eEnviPer.eu



Efficient publication and share of geospatial data and maps



InGeoCloudS is an open infrastructure for the publication, mapping and share of your Geospatial Data on the Internet. Web tools allow for smooth provisioning of geospatial services in-line with European INSPIRE directive and OGC standards. InGeoCloudS integrates first-of-the-class technical components for your private workspace in the cloud for **storing, managing and serving maps, geo-data, meta-data and service catalogues**.

Unique Linked Open Data technology is proposed for giving even more value to your data through innovative search tools, shared models, linked and synchronised knowledge bases that open the path for cross-domains applications.

IT teams can rely on a secured REST API for the development and integration of customised services.

A portal demonstrates how various data providers from the public sector already integrated their environmental datasets and Web applications in the cloud-based platform and thus benefit from enhanced performance, quality of service and reliability. A comprehensive documentation and a proficient helpdesk have been put in place for new adopters.

www.ingeoclouds.eu



@ingeoclouds



Ingeoclouds

Open-Platform of e-Government and citizen services



OASIS aims to co-create a European public patrimony of shared and reusable data for the creation of new services more accessible, user-friendly, efficient and less expensive for the taxpayer.

OASIS is an ecosystem that organises the governance of this data to help public administrations to make **better use of business information and data produced by citizens**.

Crossing this data should lead to the emergence of powerful decision-making tools for the establishment of public policies.

OASIS is accessible through the cloud, in five countries: France, Spain, Italy, Bulgaria and Turkey. Used by public bodies, associations, companies and citizens, this platform of services gathered in a unified portal follow a user-centric approach allowing users to find services available around them.

www.oasis-eu.org

 @OASISEU

Accessibility, cost-efficiency, user-centric approach



Innovation, business opportunities, digital services are the goals driving Open-DAI.

Open-DAI aims to increase benefits of Open Data (OD) through an open-source platform offering virtualisation, transformation, and publication in a cloud environment of a broad range of data from several different institutions: transport and mobility info, environmental quality, localisation services and tourism information.

Open-DAI generates value for both sides of OD scenario, by combining under a common roof the needs of public agencies and of Public Sector Information re-users.

Open-DAI provides a broad set of services/formats, and fine-grained Application Programming Interface (API) management, supporting development of both apps and data intelligence work; access services will allow for mobile devices (“Apps”).

Rollout in the four participating countries will depend on each geopolitics specific context. Private partners may eventually use the platform.

www.open-dai.eu



@Open_DAI



Open-DAI-5097195



CipOpendai



group forum:

open-dai@googlegroups.com

Raising citizens' awareness about the available public services



SEED is a cloud-based platform between the administration and its citizens, serving public and open data across networks of information points with different types of digital devices.

The project has succeeded in bringing 7 pilots into operational status with clear evidence (1409 PSI -public service information- services: 277 eGovernment services; 42 Carousels¹ ; 86 Displays) of local success concerning implementation.

At an affordable cost and an easy way to raise awareness and advertise services, SEED is a suitable tool for public administrations that makes possible to convert PSI into iPSA (interactive public sector announcements) to leverage eGovernment and transborder services across Europe.

The platform and offered services are ready for undertaking a second phase aiming at a wider market deployment.

www.seed-project.eu



@SEED_EU



Seed Project



SEED project EU

¹ A Carousel or PlayList is the list of content and items that are listed in a desired order and plays in a particular display.

Projects 2013

Following the successful call in 2011, in 2013 a new call was launched under the Competitiveness and Innovation (CIP) ICT programme aiming to strengthen the usage of cloud computing infrastructure and the reuse of common building blocks.



The Future ...

H2020 activities on "ICT-enabled open government" benefited from the experiences of these activities on the "cloud of public services" concept.

Following these activities and other activities to modernise the public sector, a draft vision paper was published to offer a long-term path toward the transformation of the public sector and the delivery of services.

Downloadable document: <https://ec.europa.eu/digital-agenda/en/news/vision-public-services>

A new approach to the delivery of public services



CLIPS (CLoud approach for Innovation in Public Services) is based on the collaboration between civil servants, public authorities, citizens and businesses (both large and SMEs) for the development of a new approach to the **delivery of public services through the use of cloud computing**.

The tools and the approach being identified and provided by the project (mainly based on data mash-up and open data management) will develop an ecosystem template that can be replicated across Europe enabling cost reductions while promoting interoperability and effective use of open data for enhancing the involvement of third parties within service delivery value chain and the customer experience.

The Project centres around a scenario of a family moving and some support services across five different cities: Bremerhaven (DE), Lecce (IT), Novi Sad (RS), Santander (ES) and Stockport (UK).

www.clips-project.eu



@CLIPSproject



CLIPS-project-8106618

Innovative cloud-based services through an open platform



The main goal of **CloudOpting** project is **to increase the usage of cloud computing by public administrations** by providing a shared platform where public institutions and government bodies can migrate existing IT systems in order to deliver online public services to citizens and third-parties, centrally manage operational data and citizen information within a controlled environment and allow citizens to develop innovative new services.

CloudOpting intends to enhance the adoption of cloud platforms by stimulating a change of practice in public authorities and thus enable efficient and transparent services as well as new market applications to private companies and citizens.

The framework will be tested in pre-commercial pilots deployed and experimented in three European regions and cities – Barcelona (Spain), Piedmont (Italy), and Corby (UK). The results and conclusions related to these experiments will contribute to establishing common strategies, methodologies, standards and innovative cloud-based services through an open platform.

www.cloudopting.eu



@CloudOpting



CIP-CloudOpting-Project-7479386

European Cloud marketplace for intelligent mobility



ECIM aims to encourage collaboration between the public and private sectors in cities, bolstering pan-European innovation and contributing in the development of smarter transportation services.

ECIM helps city managers, service creators and citizens benefit from the ability of Cloud Computing to make transportation services more innovative, cost effective and accessible:

- Public Authorities can quickly and easily deploy services via the cloud reducing the financial burden of service delivery and browse through a wide range of services to locally improve mobility;
- Businesses can upload and sell their services through the cloud and reach new customers for a fraction of the traditional cost;
- Citizens can effortlessly access and use innovative services anytime, anywhere.

www.ecim-cities.eu



@ECIM_eu



ECIM-European-Cloud-Marketplace-Intelligent-7468726

A "Cloudification" cycle involving public services



STORM CLOUDS aims at exploring how the needed shift by Public Authorities to a cloud-based paradigm in service provisioning should be addressed, mainly from the point of view of the end-users, and taking full advantage of edge ICT.

The purpose of STORM CLOUDS is to define guidelines, relevant use cases and best practises on how to address the process. These guidelines will be prepared based on direct experimentation in at least four European cities: Águeda (P), Manchester (UK), Thessaloniki (GR), and Valladolid (ES). STORM CLOUDS will also deliver a consolidated cloud-based services portfolio to other European cities not taking part in the project. In September 2014, the first "cloudification" cycle involving a selection of public services will be starting.

www.stormclouds.eu

 [@stormclouds](https://twitter.com/stormclouds)

Boosting the adoption of public cloud services



STRATEGIC addresses the need of organisations (notably public sector bodies) to adopt cloud computing and to leverage the benefits of public cloud services.

The STRATEGIC framework will comprise cloud infrastructures and tools that will ease public sector organisations to flexibly and effectively migrate their services to the cloud.

Using the STRATEGIC framework, public bodies will be able **to cloud-enable their services**, but also to adapt and localise «best practice» services that have been successfully deployed by other public bodies in other EU countries and regions. These adaptation and localisation functionalities will greatly benefit (cloud «newcomer») public bodies that have no cloud deployments at all, since they will offer them with a readily available bundle of public services that they could directly adopt.

www.strategic-project.eu/



@strategic_eu

Virtual Registry of the (under-on-above) Ground Infrastructures



The purpose of the project **Virgo** is to realise a European virtual registry of infrastructures on cloud in-line with European INSPIRE recommendations. In order to create **a harmonised virtual registry of infrastructures** at European level, the project intends to develop procedures for the preparation of maps and regulatory provisions as well as an effective cloud registry.

To test the efficacy and efficiency of the system, the project will realise three pilots in Italy, Portugal and Romania providing geographical coverage and type of utilities included. The integrated system will deliver to various end-users (public administrations, citizens, utilities companies and operators working on infrastructures) several services leading to optimising public spending, improving the coordination of operators and managers involved and reducing the environmental impact of the interventions.

www.virgoregistry.eu



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<https://plus.google.com/100067484647603270049/posts>

