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Enrico Fracale

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POLITECNICO DI TORINO

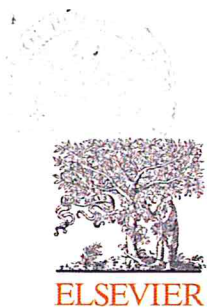
SELEZIONE PUBBLICA, PER ESAMI, PER L'ASSUNZIONE CON CONTRATTO A TEMPO DETERMINATO DI N. 1 UNITÀ DI PERSONALE DI CATEGORIA D DELL'AREA AMMINISTRATIVA - GESTIONALE, POSIZIONE ECONOMICA D1, DI CUI ALL'AVVISO N. 04/17/TD DEL 05/05/2017, PRESSO IL SERVIZIO COMUNICAZIONE, EVENTI E RELAZIONI CON L'ESTERNO DI QUESTO POLITECNICO.

PROVA A

Il Politecnico di Torino si è dotato di uno strumento informatico per l'analisi dei risultati della ricerca a partire dai dati della produzione scientifica, messo a disposizione di tutti i docenti e ricercatori e degli uffici interessati: la piattaforma modulare SciVal, distribuita dall'azienda Elsevier. Lo scopo è quello di favorire la collaborazione con altre istituzioni accademiche internazionali e con le imprese nelle attività di ricerca e trasferimento tecnologico. La piattaforma è stata presentata all'Ateneo il 18 maggio 2017 dal Vicerettore per la Ricerca Stefano Corgnati e dal rappresentante della società Elsevier Alberto Zigoni.

- Il candidato definisca il comunicato stampa inviato ai giornalisti a conclusione dell'evento e rivolto alla stampa locale e nazionale (in lingua italiana).
- Il candidato realizzi un post per Twitter e un post per Facebook in lingua inglese per informare dell'evento di presentazione la comunità dell'Ateneo e gli stakeholders (compresi i giornalisti).

Allegato Prova A: La presentazione della piattaforma SCIVAL.



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Elsevier Research Intelligence

SciVal

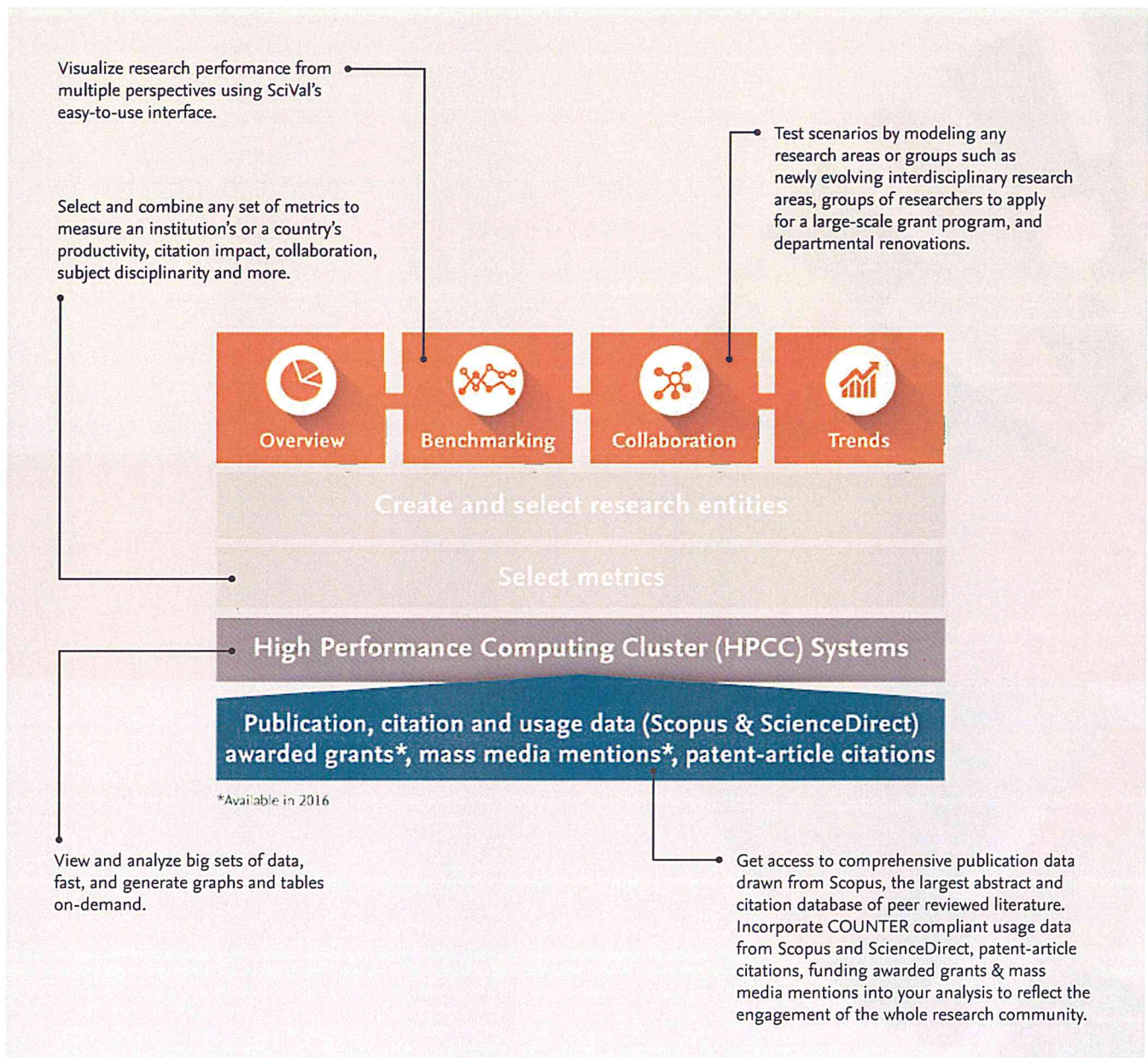
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PROVA B

Il Politecnico di Torino coordina il progetto europeo SECURED (SECURity at the network EDge), che prevede la progettazione di un innovativo sistema di cybersecurity per ridurre la vulnerabilità del mondo digitale. In data odierna il progetto è stato inserito dalla Commissione Europea nel report europeo "Success Stories in ICT and Security Trust".

- Il candidato definisca il comunicato stampa rivolto alla stampa locale e nazionale (in lingua italiana) relativo all'inserimento del progetto nel report europeo.
- Il candidato realizzi un post per Twitter e un post per Facebook in lingua inglese relativi all'inserimento del progetto nel report europeo.

Allegato: la scheda descrittiva del progetto.



SECURED

SECURity at the network EDge



Motivation

People use different networked devices in their everyday activities, including tablets, computers, and smartphones, but also interact with smart-objects and Internet-of-Things elements.

However, **all these devices – and hence their users – do not experience coherent and robust protection** from network threats as they have different capabilities, architectures and available applications.

Objectives

SECURED will offer consistent protection by **offloading security applications** from the end-point devices to a trusted and secure node at the edge of the network.

Additionally it will establish the conditions for a **marketplace of security applications**, to stimulate innovation and competition.

Expected results

SECURED will design an integrated architecture for providing consistent protection to end users, independently from the terminal they use and their network technology and location.

This will be enabled by novel protocols and personal security mechanisms, in a general framework of network functions virtualization.

Open-source proof-of-concept prototypes will be developed and used for evaluation in near real-life pilots.

Technical approach

The SECURED work plan focuses on three main components: a novel class of network devices, user-oriented security policies, and policy-driven applications.

A trusted and secure **Network Edge Device (NED)** is charged with execution of the security software selected by the end users for their protection. The NED exploits various trust technologies to provide users with strong guarantees about the software executed at this node. Security and privacy are guaranteed also by technologies that offer no possibility for intercepting or modifying the user's traffic before it's processed by the NED.

Security policies will offer also to non-experienced users the ability to configure the desired level of protection through human-friendly paradigms (e.g. web interfaces, high-level languages). User policies are then automatically mapped to the appropriate security configuration.

User-selected **policy-driven security applications** will be executed on the NED to enforce the desired level of protection according to the user policy. APIs for the independent development of security applications will be provided, along with an open web-based marketplace for such applications.

Validation is foreseen with users selected among the partners' customers. However validation of the SECURED architecture with different use cases or technologies is welcome: interested parties are invited to contact the Coordinator.



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PROVA C

Il Politecnico di Torino coordina il progetto europeo FLEXMETER, che prevede la progettazione di un innovativo sistema di contatori intelligenti per monitorare e gestire consumi energetici di diversa tipologia. Il 20 maggio 2017 il simulatore è stato presentato nella sede del Joint Research Center europeo a Ispra (VA).

- Il candidato definisca il comunicato stampa rivolto alla stampa locale e nazionale (in lingua italiana) relativo alla presentazione del simulatore.
- Il candidato realizzi un post per Twitter e un post per Facebook in lingua inglese relativi alla presentazione del simulatore.

Allegato: la scheda descrittiva del progetto e della presentazione.



Flexible Smart Metering for Multiple Energy Vectors with Active Prosumers



This project has received funding
from the European Union's Horizon 2020
research and innovation programme
under Grant Agreement no. 646568

FLEXMETER Project

Context and needs

Directive 96/92/EC of the European Parliament and of the Council of 19 December 1996 concerning "common rules for the internal market in electricity" introduced the electricity market in European countries. Up to now however the market is working properly for the big producers and users and for the retailers, while the small consumers and prosumers cannot access directly the market and cannot be influenced by price signals.

Distributed generation from renewable and non-programmable energy sources is becoming widespread, requiring a more flexible management of the distribution grid, also involving energy storage.

For these reasons a "smarter" distribution grid is required.

A first step in this direction is the development and installation of a flexible smart metering architecture for multiple energy vectors. Up to now, the smart meters that are being installed are nearly only devoted to billing improvements. The new metering systems must go much further!

Objectives

The *FLEXMETER project focus* is the development and demonstration of a *flexible smart metering architecture*, based on *cheap and already available components*, that can be implemented in a *plug and play* way, combining *metering of different services* (electricity, water, gas, district heating), providing *advanced services* to the users, to the DSOs and to the other utilities, and *enhancing* the possibilities of the *retail market*.

- simple *off-the-shelf meters* will be placed *at the users* for electric, ,water, thermal and gas metering;
- a *building concentrator*, where the "smartness" of the metering system will reside, will be installed;
- every building concentrator will *communicate* on one side with 10 to 20 *user meters*, and on the other side with a *central system*;
- simple *off-the-shelf meters* will be placed also in *MV/LV substations*;

The participation of JRC will support together with POLITO the link with European research initiatives is fulfilled in this project as well as the appropriate dissemination activities at both industrial and research level.



POLITO shows a large effort in this project, participating with two departments: DAUIN – Computer engineering and automation, and DENERG – Energetics. Also, POLITO acts as coordinator of the project. The project leverages a strong industrial participation and contribution in all the strategic domains relevant for the target of the project: from the hardware smart meter devices (STM), to data communication and processing (TI) to reach the requirements of the final industrial users (IREN and EON) in the evaluation part. In parallel, the strong academic support in these fields will help developing innovative solutions: POLITO will collaborate on the development of software running on the FLEXMETER gateway solution, while UNIBO will design effective data communication and processing strategies to optimize the collection of energy data thanks to its expertise on data compression techniques and wireless network protocols. UPB, INPG and RTWH will contribute on the development of demand-response algorithms based on the collected data. RTWH will also contribute on the evaluation side by developing simulation scenarios to extend the evaluation to additional use cases with respect to the use case implemented for the demonstrators. Business and strategic aspects will be covered by SIVCO, JRC and POLITO. As such we envision a strong collaboration between industry and academia, namely POLITO/UPB/INPG/RTWH and IREN/EON and between UNIBO and TI.

FLEXMETER touches 4 countries (ITALY, GERMANY, FRANCE, SWEDEN, ROMANIA), bringing different markets and industrial needs. These different needs and realities will be embedded in the FLEXMETER solution, so to develop a product and related services able to answer to a wide European need streamlining the necessity of cost containment and improved service provision. This will be evidently also translated in an easiest approach to FLEXMETER trans-national commercialization.

From a geographic viewpoint, the number of Italian partners is functional to the development of activities on the Turin demonstrator. However this is well balanced by the strong presence of many other countries covering all corners of Europe. The demonstrator in Sweden will extend the Turin one in a completely different geographic site.