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SIMON: an ICT proposal for the EU Disabled Badge

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Workmen caught flouting disabled parking rules on Rutherglen's King Street

Oct 22, 2014 5:31 | By Jonathan Geddes

They were caught sitting in two disabled parking bays



Workers in disabled parking spaces, King Street, Rutherglen

Workmen were caught flouting disabled parking rules in two disabled parking bays on King Street. The workers were snapped parked in two disabled parking bays on King Street.

Spittal man Brian Stewart spotted the workers when he was driving past.

Brian, who suffers from a disability himself, couldn't believe the workers were parked there for a while longer.

After Brian complained one of the vans drove away - but the other one remained parked there for a while longer.

Opinion » Letters » Articles »

'Drivers are ignoring disabled parking rules in Dunfermline'

Published: 14 Oct 2014 18:27

I AM a disabled driver and I am sorry to say that this morning on Wednesday 7th October I saw two vans parked in disabled parking spaces on Guildhall Street at 10am.

The vans parked in these photos are used by two people who have been for weeks now and they are not disabled. There doesn't appear to be anyone in them.

But I can guarantee that if I parked where I should have been there would be a ticket on my windscreen in minutes.

I am sure I read in the Press a while back that the council was going to put signs up to clarify the disabled parking in the High Street - no sign of that yet. I mentioned to a van driver once and just got told "Where is the sign?"

Woman used mother's disabled blue badge to avoid parking charges in Newcastle town centre

By The Sentinel | Posted: September 12, 2014

MOTORIST Denise Whalley used her disabled mother's blue badge - so she could avoid forking out to park in the town centre.

Whalley admitted using Monica Ellis's disabled parking permit for six months to avoid the charges at Ryecroft car park in Newcastle.





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Key issues

- **SIMON** is a demonstration project started 1st January of 2014
- Project financially supported by the European Commission under the Competitiveness and Innovation Framework Programme (CIP).



- **Demonstration project:**
 - Test and validation in real life conditions.
 - Not focus on development but on deployment of **existing mature solutions and promotion!**





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Key issues

- **WHAT**

- SIMON will promote the independent living and societal participation of mobility impaired people in the context of public parking areas and multiple transport modes

- **HOW**

- Through an ICT solution: adoption of specific navigation information and access-rights management solutions





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Key Issues

- Two main topics
 - Modernisation of **parking cards**: reduction of fraud in the use of Disable Badge for parking areas
 - Access to specific **multimodal navigation** solutions



- **Demonstration project:** Test and validation in real life conditions
Three large scale pilots in Madrid, Lisbon and Parma

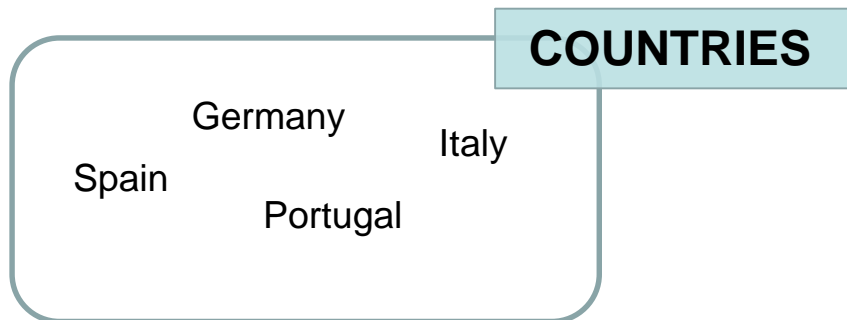




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The Consortium





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The User Group

- Key Asset: a group set up with the specific objective of ensuring a **scalable base for deployment** at EU level and **wider impact of the project outcomes**
- Must include institutions that are **high-profile users of SIMON results**, thus reinforcing and complementing the role of the city partners of the consortium.



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The problem

- The nature of the problem that SIMON is addressing is similar in all member states of the European Union:
 - Forge and **misuse of the European Disabled Badge** by non-legitimate users
 - **Access to transport and mobility infrastructure** is a problem for many disabled people, acting as a barrier to work and social activities
 - **Lack of incorporation of ICT solutions** in the provision of **accessibility and mobility**, supporting the use of public and private transport modes.



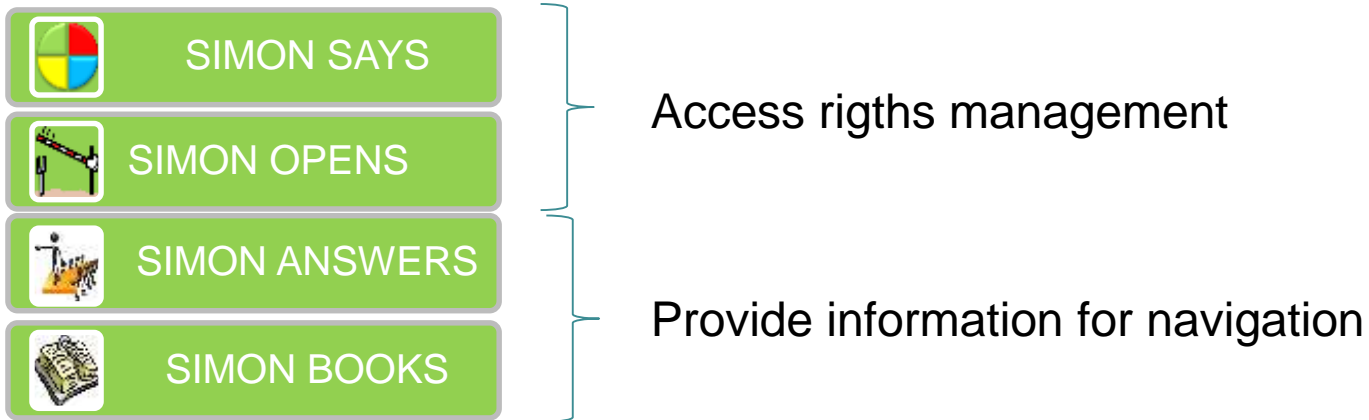


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The solution

- A platform supporting different services:



- A mobile application for impaired citizen:



- Applications for controllers and operators/authorities





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Focusing on ON-STREET PARKING



SIMON SAYS

Univocally identify and locate the legitimate user willing to access a specific parking area.

Security Tokens:



NFC Tag



SIMON BOOKS

Booking service – Information on occupancy levels and prediction of occupancy.





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THREE BIG PILOTS: Madrid, Lisbon, Parma

- **MADRID:** Access-right management solution to be integrated with the existing Reserve Parking System
 - **Most complex pilot site.** 2500 users expected
- **LISBON:** Challenging strategies for **Access-right management solution:** Lisbon disable users will make use of an EU parking card badge doted of an NFC tag
 - 1500 users expected
- **PARMA:** current ICT infrastructure for access to urban restricted areas will be adapted
 - 1000 users expected





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Development of the project

The project is structured in 3 years and in 4 big phases:

- 1** Phase 1: Preparation
- 2** Phase 2: Small Scale Piloting
- 3** Phase 3: Large Scale Demonstration
- 4** Phase 4: Deployment Phase





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Progress - Achievements

- Discussion groups – feedback to the selected use case
- Architecture definition
- Conceptual design for app
- Functionalities for small scale pilot
 - ✓ Standard paper blue badge doted with a NFC tag:
 - Citizen app to validate the badge /controller app to validate the parking
 - ✓ Navigation – Map to show location of reserved parking spots





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THANK YOU!!

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