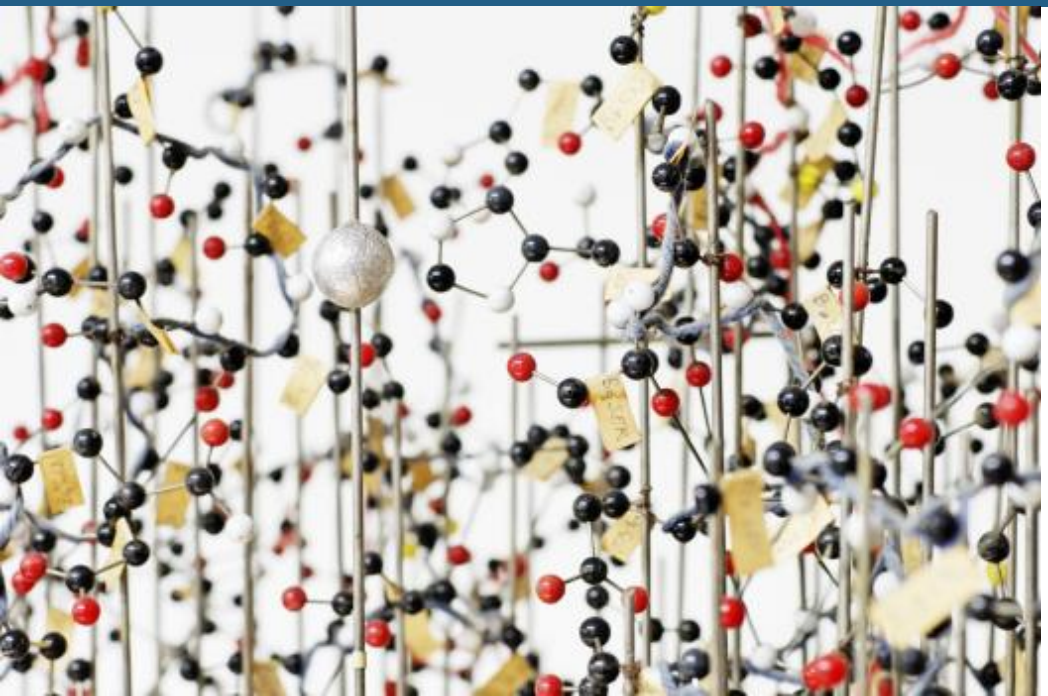
The REACTION Project

Improving the management of diabetes with the aid of ICT



REACTION

A Professional Service Platform for Remote Accessibility to Diabetes Management and Therapy in Operational Healthcare Networks

An intelligent health service platform

Remote monitoring and therapy management of patients with diabetes

The general idea is to facilitate **control of the blood-glucose** level and other vital signs, which are crucial for good **diabetes management** and **insulin therapy**.

In REACTION, we have developed methods and tools to **support patients and healthcare professionals** in the day-by-day management of diabetes, in **hospital and primary care** contexts.

In hospital

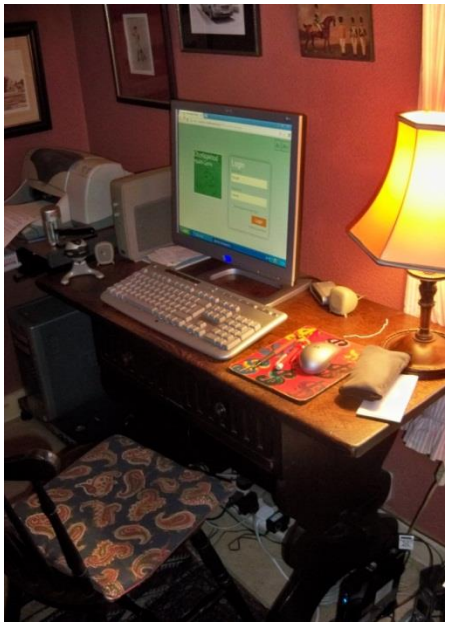
- In REACTION the focus is on reducing this risk via continuous blood glucose monitoring and decision support for hospitalised patients.
- The REACTION platform supports the management of glucose level monitoring & decision making.

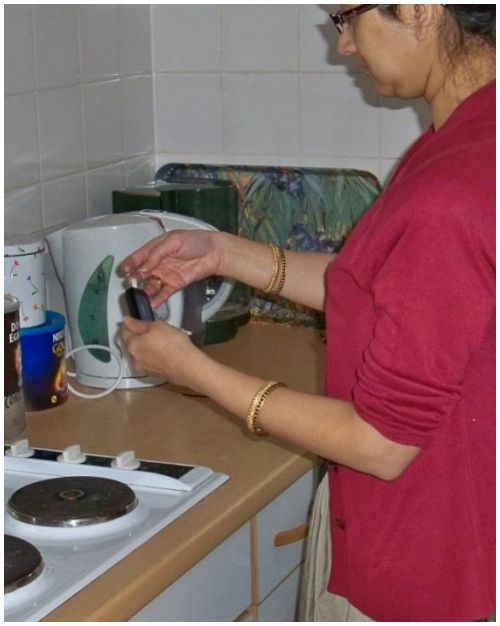
The objective is to enable hospitals to reduce mortality rates by preventing cases of high and low blood-sugar levels, as well as long-term complications

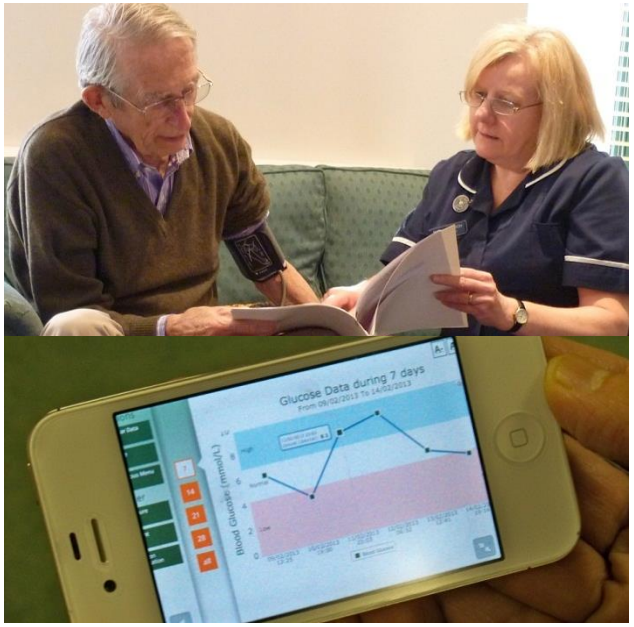
In hospital

General Practice

- Managing and treating patients with diabetes in Primary Care must take into account other chronic and diabetes-related illnesses that the patients often have.

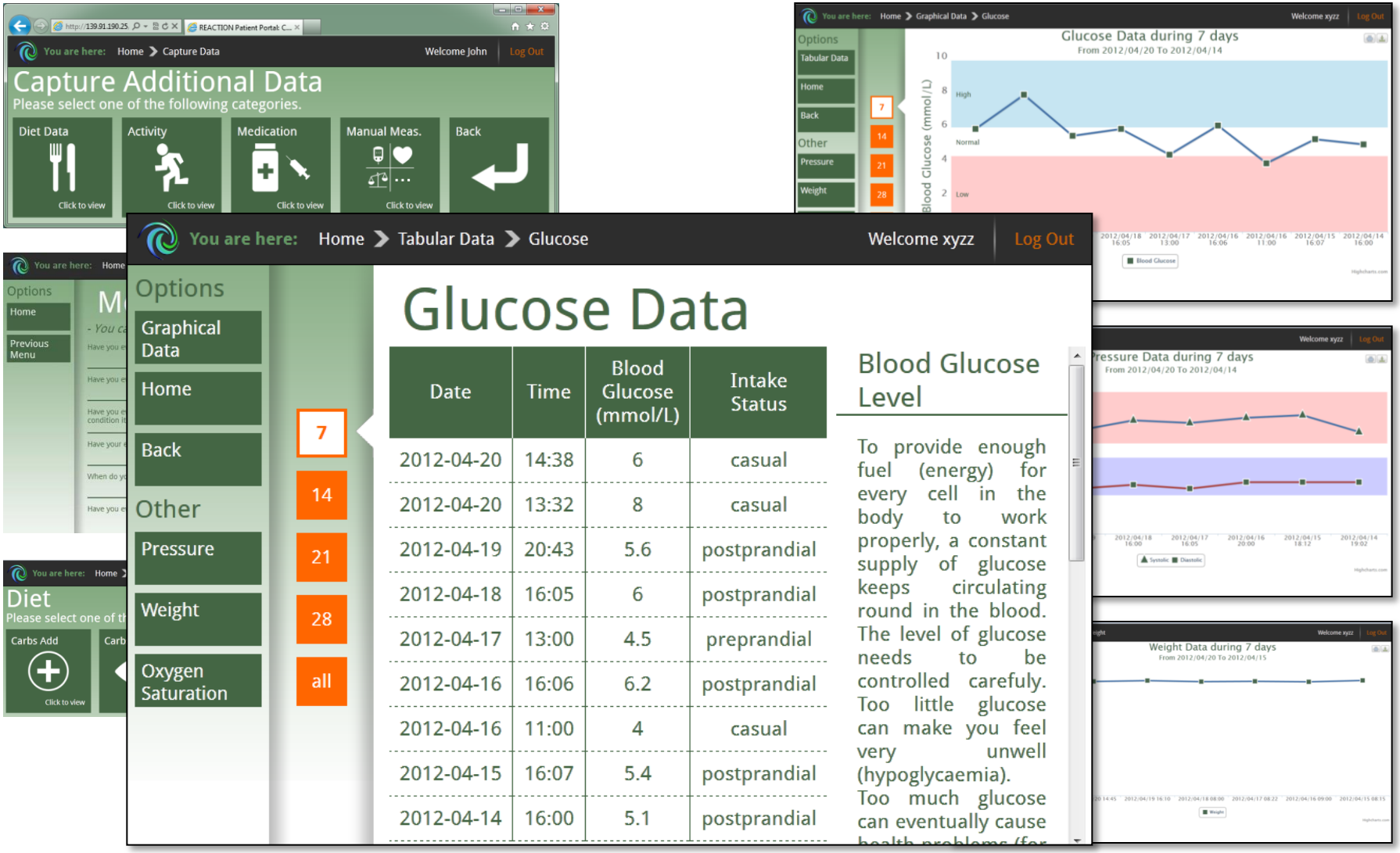




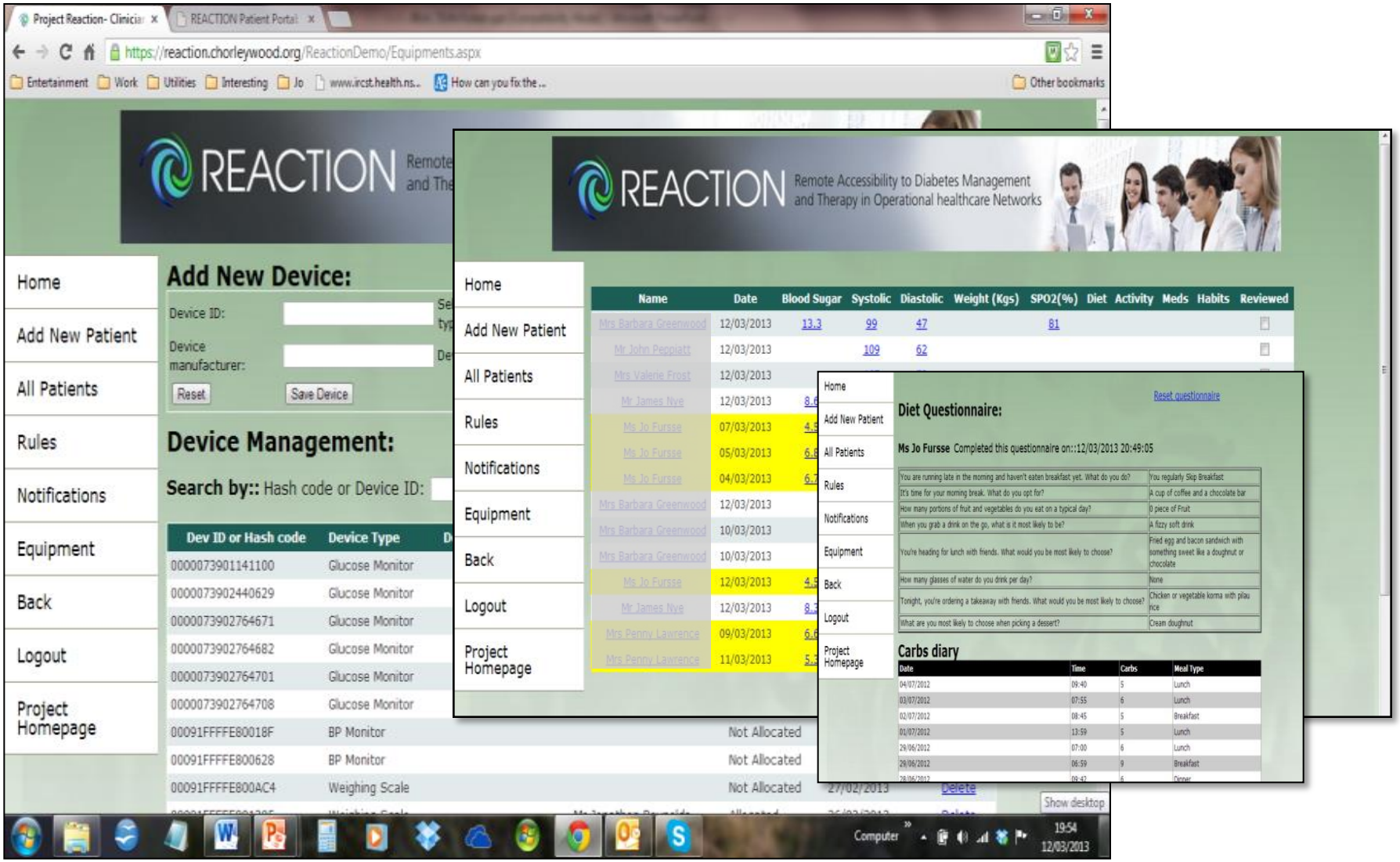


The objective is to enable patients to be more proactive with the self-management of their behaviour and activities.

Sharing Information - Patient Portal



Managing Patient Information - Clinician Portal



Devices and Gateways for Primary Care

Internet – wired / wireless

Display

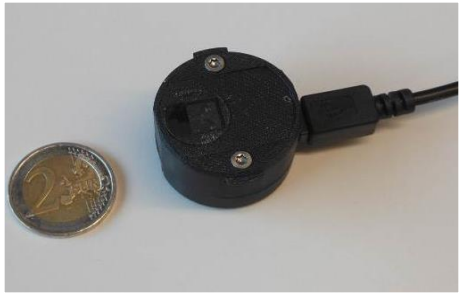
PC

Tablet

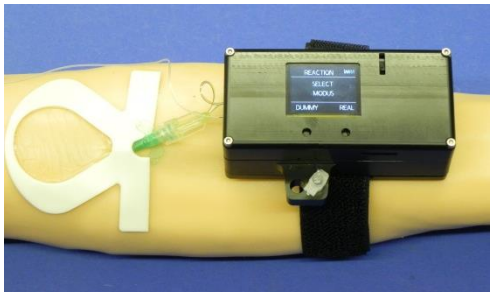
G.P.R.S

Other areas of research

- Sensors
- ePatch
- Security environment
- Closed-loop Algorithms
- Automatic Glucose Control
- Glucose-insulin-glucagon Model



iCath sensor



IR sensor

ePatch

- Other results
  - Socio economic studies
  - Legal issues
  - Business models and exploitation plans

REACTION Consortium

Atos

CNet SVENSKA AB

DELTA

IMM Institut für Mikrotechnik Mainz GmbH

SIT

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