

*Note: The information given in this document is still preliminary until partner contracts and funding allocations are finalised.*

## Project Information

|                           |  |
|---------------------------|--|
| <b>Project Short Name</b> | CAP MOUSE  |
| <b>Project Full Name</b>  | Development of a non-invasive CAPactive sensor oral MOUSE interface for the disabled elderly |
| <b>Project Reference</b>  | aal-2008-1-203   |
| <b>Coordinator</b>        | Tomas Brusell  |
| <b>Organisation</b>       | Brusell Dental AS  |
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### Background of the Project

Brusell Dental has for many years been working on a truly hands free solution for disabled people, and for dentists and surgeons with both hands occupied, to manage their digital and electronic environment. Different methods has been developed and tested and a series of patents have been applied for and granted.

The CAP MOUSE patent is the basis for the current project and together with partners with competence in the relevant fields a novel intuitive human interface for disabled elderly will be developed, designed, tested and finally brought to the market.

### Visions and Objectives of the Project

With a non-invasive modus operandi, CAP MOUSE will use external capacitive sensors mounted on a CAP MOUSE headset to scan tongue movement and feed the signal into a processing unit that extracts and translates features from the signal into e.g. mouse clicks and commands of the integrated Mobile Device, thereby replacing the keyboard, the remote control and other electronic devices. This will provide new possibilities for disabled elderly to be included in the digital communication. The RTD of the project is carried out to prepare a functional and user-tested prototype by the end of the project.

### Project Partners and Funding

| Full name                      | Short name | Country Code | Type of Organization     | Final granted budget in EUR |
|--------------------------------|------------|--------------|--------------------------|-----------------------------|
| Brusell Dental AS              | Brusell    | NO           | SME                      | 247.500                     |
| HMC International NV           | HMC        | BE           | SME                      | 130.692                     |
| Pensionäernas Riksorganisation | PRO        | SW           | Pensioners' Organisation | 97.866                      |
| Lots Design                    | Lots       | SW           | SME                      |                             |
| Stinct                         | Stinct     | SW           | SME                      | 97.866                      |
|                                |            |              | <b>Total</b>             | <b>573.925</b>              |

