

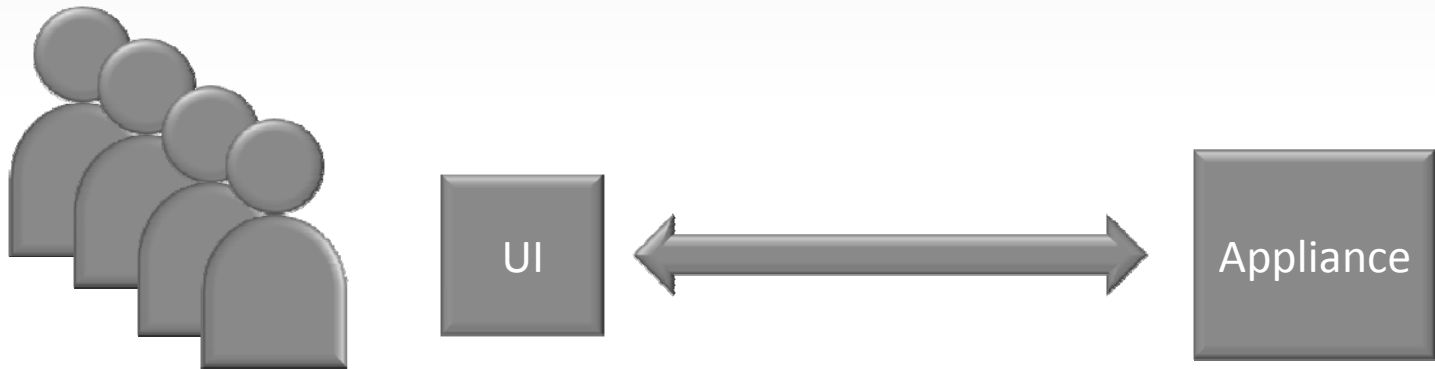


openURC is an international alliance promoting ISO/IEC 24752 Universal Remote Console (URC)

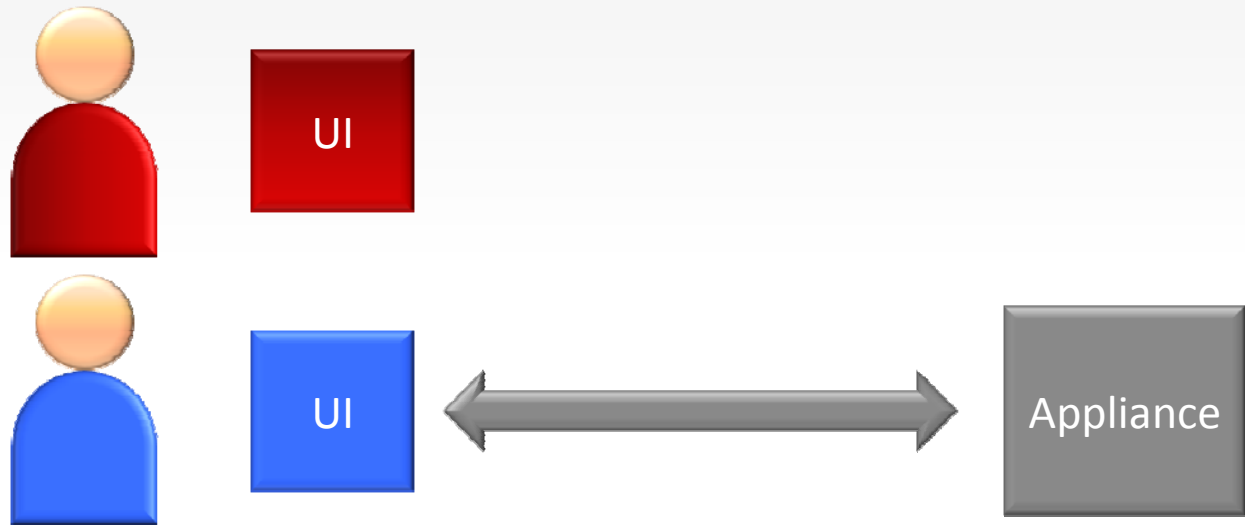


- > **What is Universal Remote Console (URC)?**
- > How does URC relate to AAL?
- > What are the conditions for using URC?
- > What is the openURC Alliance?
- > Conclusion!

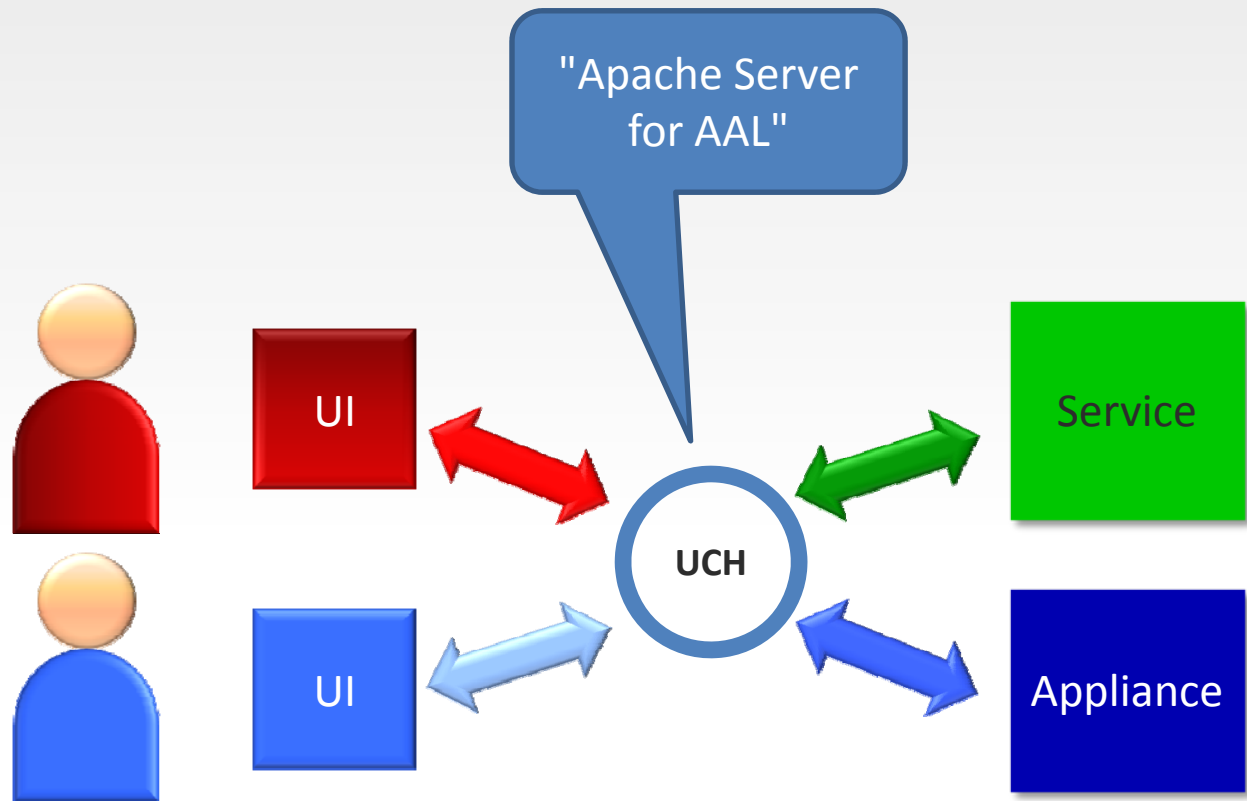
From “one size fits all” to “one size fits one”



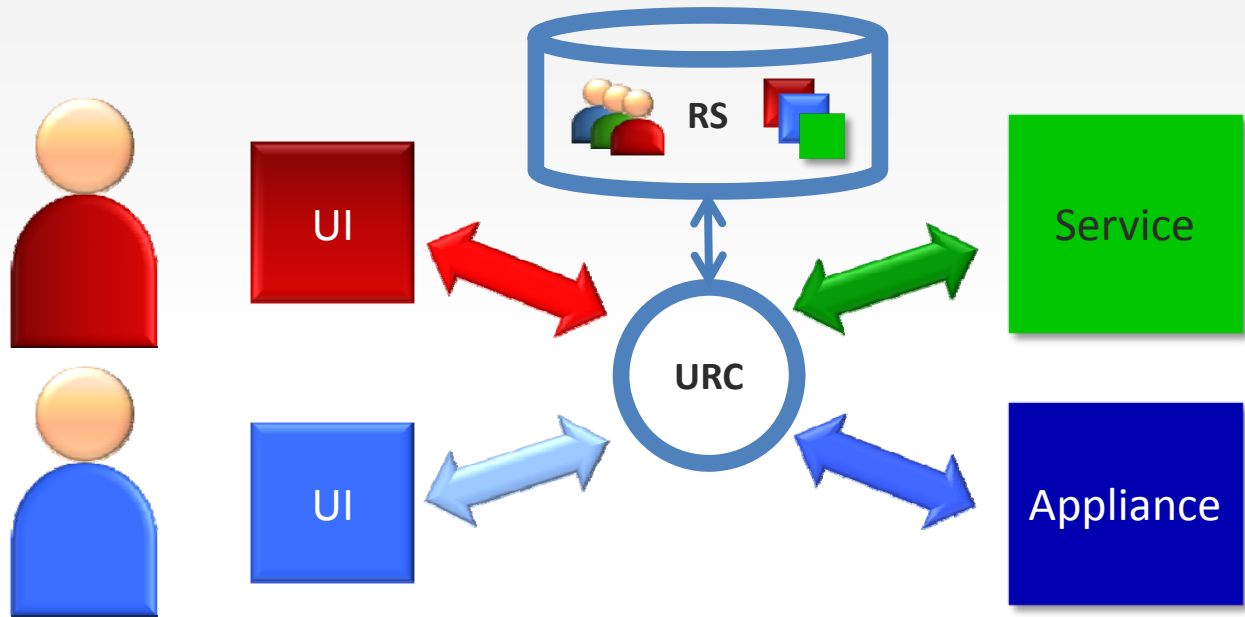
From “one size fits all” to “one size fits one”

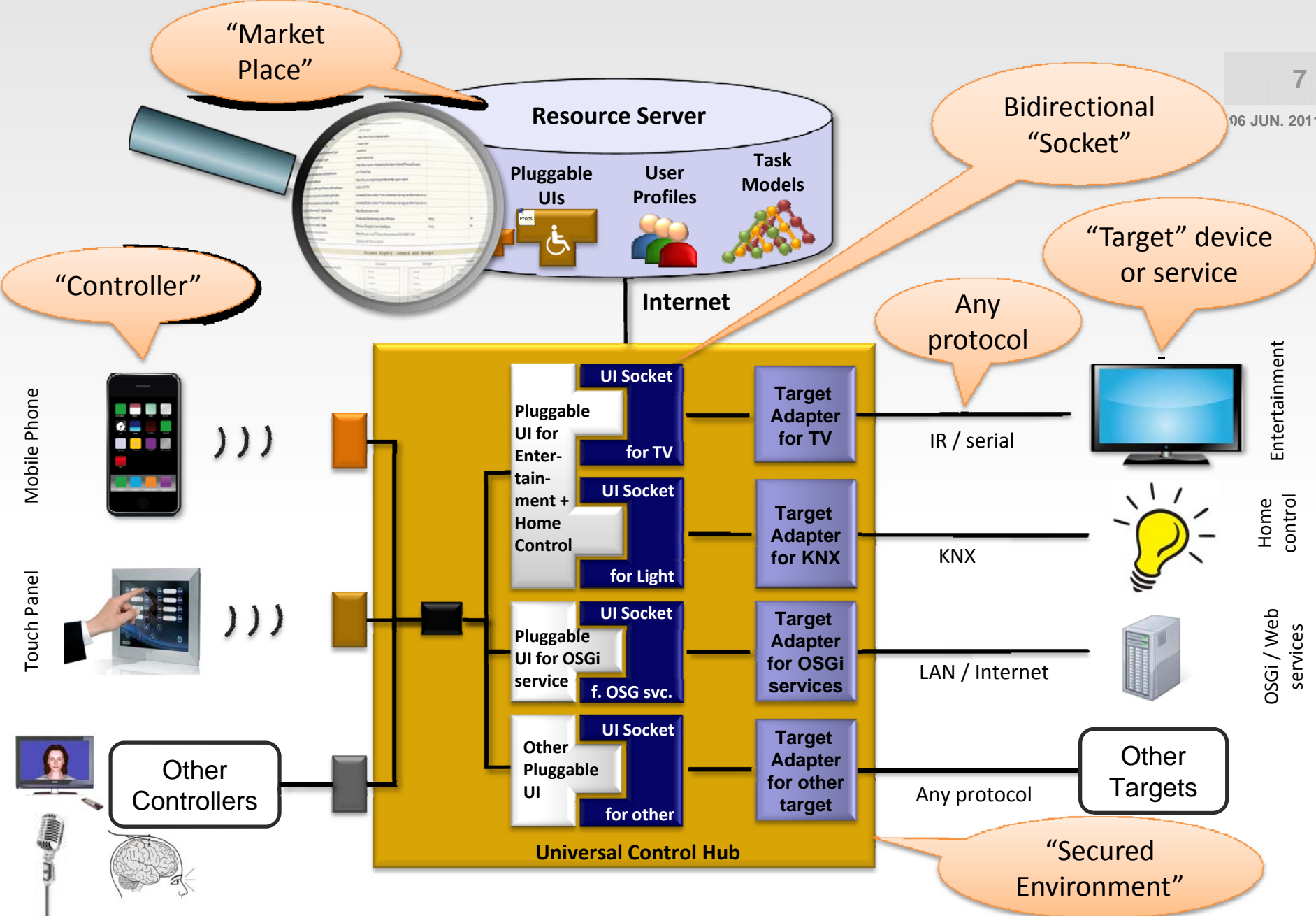


From “one size fits all” to “one size fits one”

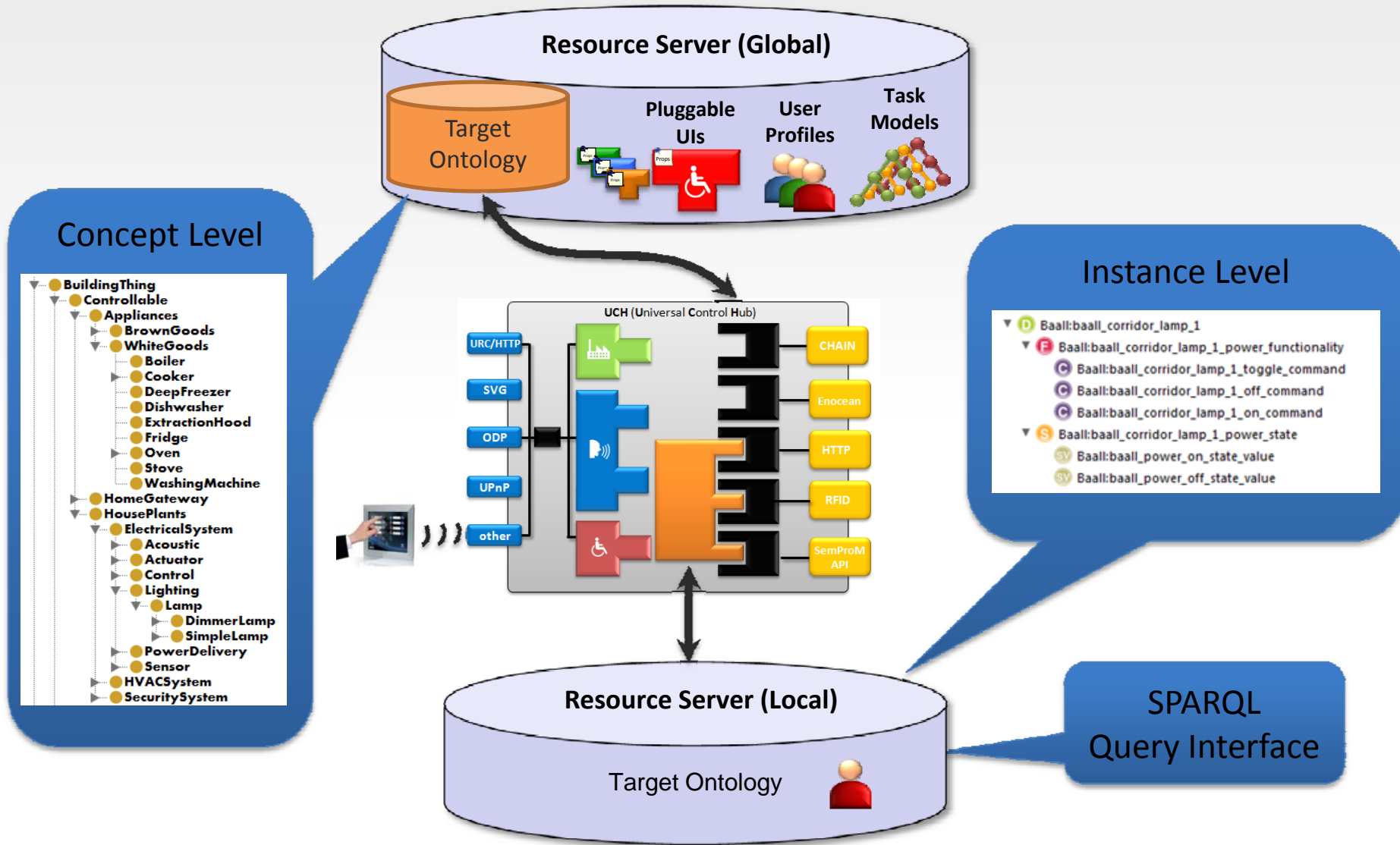


From “one size fits all” to “one size fits one”



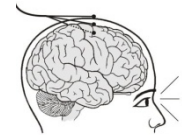
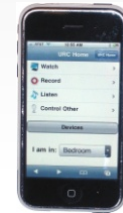


- > OWL Ontology as a basis for socket descriptions
 - > UI Socket enhanced with universal semantic descriptions
 - > Universal and common descriptions of states and functionalities
 - > basis for a common interpretation of exchanged data
 - > Semantic Web Idea:
 - > Combine ontology with others like environment, lexical, business, personalization, context awareness, OWL-S



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- > The user can pick any controller they like and have handy
 - > TV + remote
 - > Smart phone
 - > Computer
 - > Touch panel
 - > BCI
 - > Speech control
 - > Etc.





Source: Trace Center, Univ. of Wisconsin-Madison, USA



Source: DFKI, Saarbrücken



Source: Czech Technical University, Prague



Source: VicomTech, Spain



Source : VicomTech, San Sebastian, Spain


Webclient Index Page

http://131.234.82.180/UCH/clients/webcl




Webclient Index Page

Systole:
096

Diastole:
026




Pulse:
085



Guidance Through Blood Pressure Measurement

Step 6. If you have to repeat your measurement (maybe caused by an incorrect operation or something similar), please completely deflate the strap and perform your next attempt not before t least 2 minutes



Back Next Cancel

Fertig

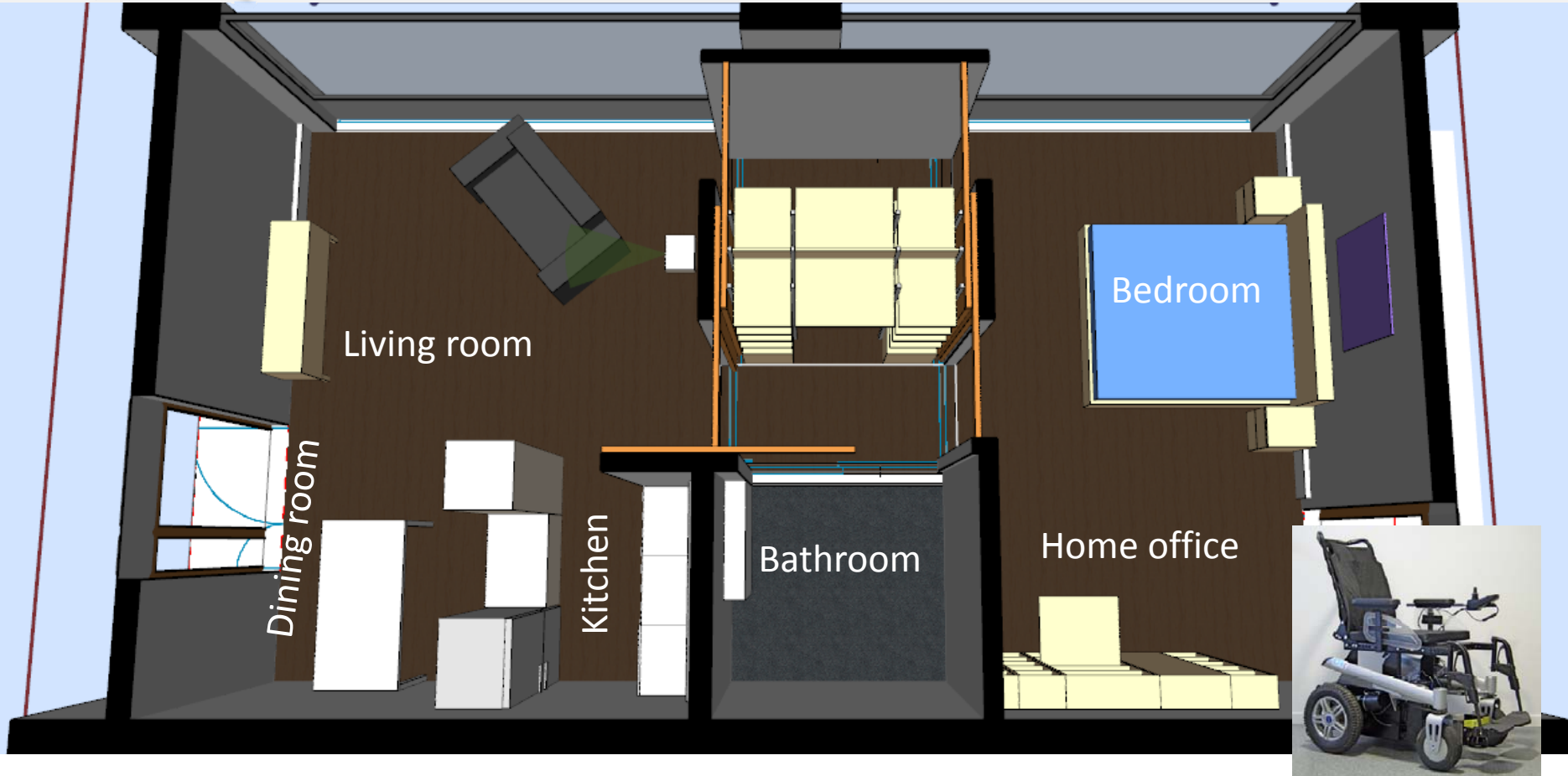
Smart Kitchen



BAALL – Bremen Ambient Assisted Living

KNX

Source: DFKI GmbH, Bremen



- > Enhanced Universal Design
 - > Multiple user interfaces address needs of different users
 - > Experts can provide specialized use interfaces for existing products
 - > "Functional user interface" can be generated automatically



- > Aging
 - > As the user gets older, their user interface adapts (or gets adapted)
 - > Increased market share / brand loyalty

- > When in a friend's home
 - > Can control the friend's TV with their personal UI (only if friend grants access)
- > While on travel in a hotel
 - > Can control the alarm clock in the hotel room with their personal UI (but not the alarm clock next door)
- > After buying a new device
 - > Can control the new DVD player with the old preferred UI



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- > Extensible Framework
- > Based on an international Standard
 - > ISO/IEC 24752
- > Components available
 - > Many open-source
 - > Some licensed
- > Free of Intellectual Property
 - > No patents on basic framework (standards)



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Projects with openURC

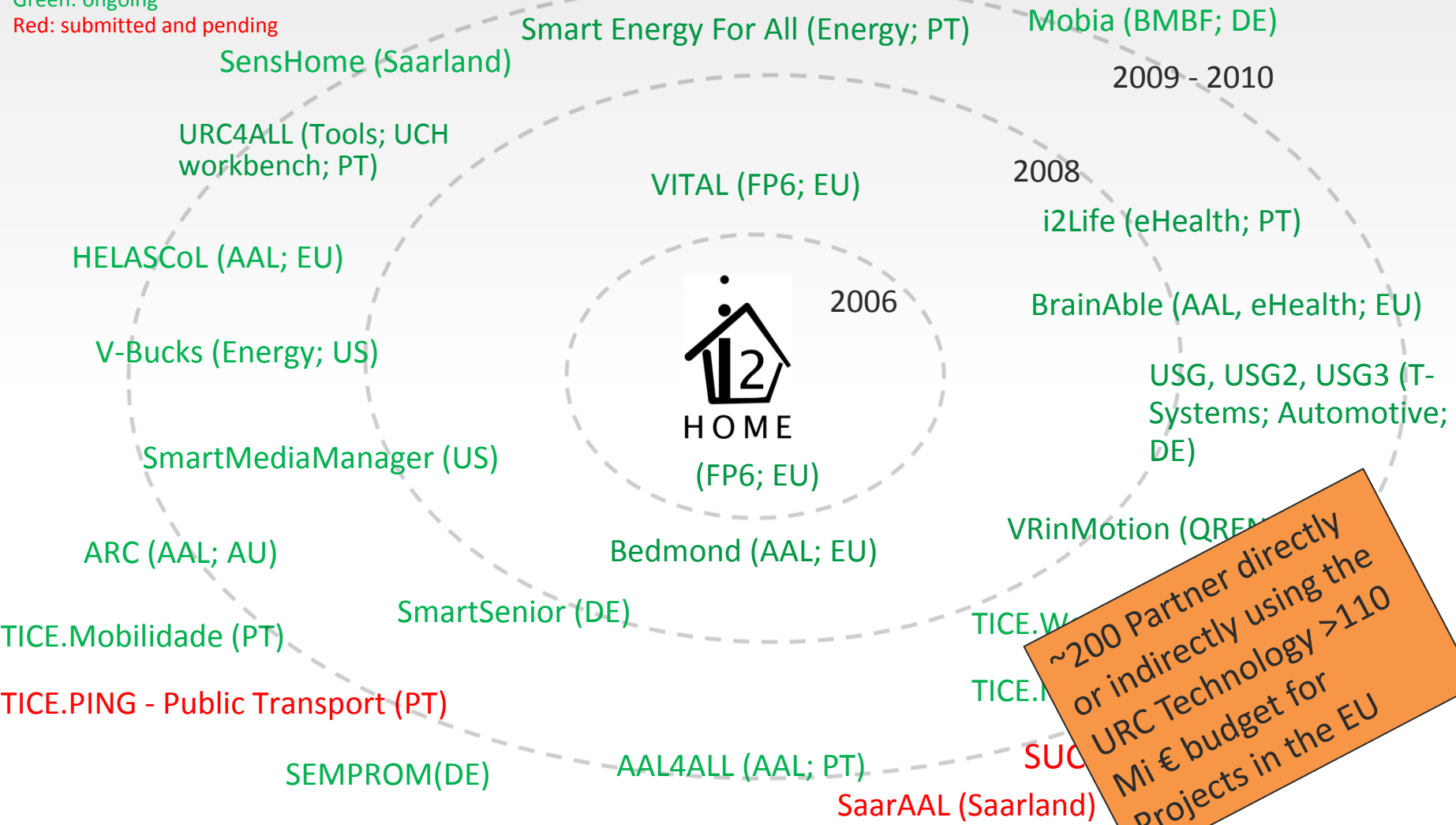
Green: ongoing

Red: submitted and pending



HOME
(FP6; EU)

2006



~200 Partner directly or indirectly using the URC Technology >110 Mi € budget for Projects in the EU



Public Transport

▶ Click here to know more



Energy

▶ Click here to know more

News

Latest news

OpenURC in SmartSenior meeting

OpenURC was presented at the SmartSenior meeting in Berlin at the beginning of this week. Pics and (German) info at [DFKI's Facebook page](#).

Presenter: Prof. W. Wahlster, CEO of DFKI

Dual Reality in the Bremen Ambient Assisted Living Lab

Dual reality models are virtual representations of the real world, which are at the same time networked to that world. They not only mirror the appearance of the actual environment but also its functionalities and they are able to interact with it.

[Read more...](#)

Home

Welcome to openURC Alliance website! openURC's mission is to promote the Universal Remote Console and associated standards and its application. We believe that effective intuitive, pervasive and personalized User Interfaces will largely determine the shape of technological products in the future. They will allow the simple and easy usage of any device or service by any type of user, from the technological expert over mainstream consumers to people with special needs, ensuring that every person has access to technology and technology products, in one completely individual, personalized, user-friendly, inter-operable, pervasive, and seamless environment.





Healthcare



Home Automation & Ctrl



AAL / IL



Education



Automotive



Public Transport



Energy



Mobility

- > Incorporation as a non-profit organization in August 2011
 - > Headquarter: Saarbrücken, Germany
- > Founding partners:
 - > DFKI, ATG, Meticube, TRACE, Vicomtech, INGEMA, Consistec GmbH, CTU, Georgia Tech, dotUI, Plenar Technologies, IMSS, Trialog, Star Healthcare, Univ. Basque Country, Discvision, ...
- ▶ Four committees
 - ▶ Technical
 - ▶ User
 - ▶ Marketing
 - ▶ Governance
- ▶ Member categories
 - ▶ Core
 - ▶ Charter
 - ▶ Associate
 - ▶ Basic

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personal & accessible user interfaces
+ international framework standard
+ based on mainstream technologies
+ support for semantic interoperability
+ the OpenURC international alliance

= The Universal Remote Console (URC) Platform

References

> [openURC Consortium](#)

> Mission

- > to promote the Universal Remote Console (URC) and associated standards and its application in products, this way facilitating User Interfaces that are simple and intuitive to use, including current and future technologies such as Task Models, advanced User Profiling and Natural Language and Computer Brain Interaction, among others

> Technical Reports

- > [URC Technical Primer](#)
- > [Universal Control Hub specification](#)
- > [URC-HTTP Protocol specification](#)
- > [Resource Property Vocabulary specification](#)
- > [Resource Server HTTP Interface specification](#)

> Publications

- > [URC Whitepaper](#)
- > Refer to the [openURC website](#) for other publications

- > ISO/IEC 24752:2008, Universal Remote Console
 - > **Part 1: Framework.** Provides an overview of the components of the URC framework, and how they interact. Specifies conformance requirements for target devices/services and controlling devices/services.
 - > **Part 2: User interface socket description.** Defines the "user interface socket", an abstract user interface model through which a target device/service exposes its functionality to a controlling unit. Specifies an XML language for describing a user interface socket.
 - > **Part 3: Presentation template.** Specifies an XML language for describing a flexible user interface language that can be used as "user interface implementation description" for a specific user interface socket.
 - > **Part 4: Target description.** Defines the "target description" and pertaining XML language. A target description contains pointers to sockets and resources as provided by a target, for the purpose of building a user interface that fits to its sockets.
 - > **Part 5: Resource description.** Specifies how user interface resources are described via an RDF-based language in terms of "atomic resources", "resource sheets", "resource directories", and "resource services".
 - > **Part 6: Web service integration.** Specifies how a WSDL service can expose a user interface socket and thus be integrated as URC target.