

# Zusammenfassung & Ideen

Was haben wir gehört?

Wo kann es beispielsweise hin gehen?



**SO FAR...**

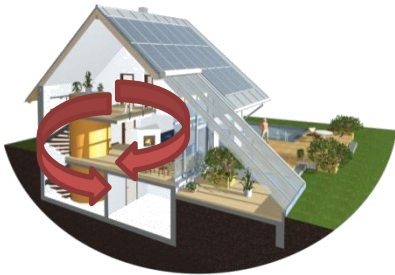
# What did we see/ hear?

- Unterstützung heterogener Domänen
- Sicherheit, Autonomie und Dienste in intelligenten Umgebungen
- Demos
  - (T) Webinterface mit Gateways und Services
  - (T) Remote Access
  - (T) Registrierung und Authentisierung
  - (T) Sensoren
  - (F) Remote Control (iPod)
  - (F) Regelbasierte Ausführung Zigbee
  - (S) Fire Alarm Application
  - (S) Inventory- und Service-Management

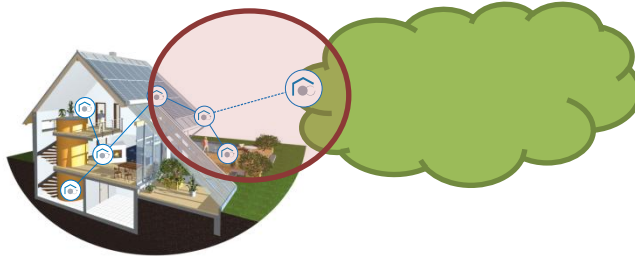
**...SO ON**

# Categories

In-building



Smart Space  $\leftrightarrow$   
External Services

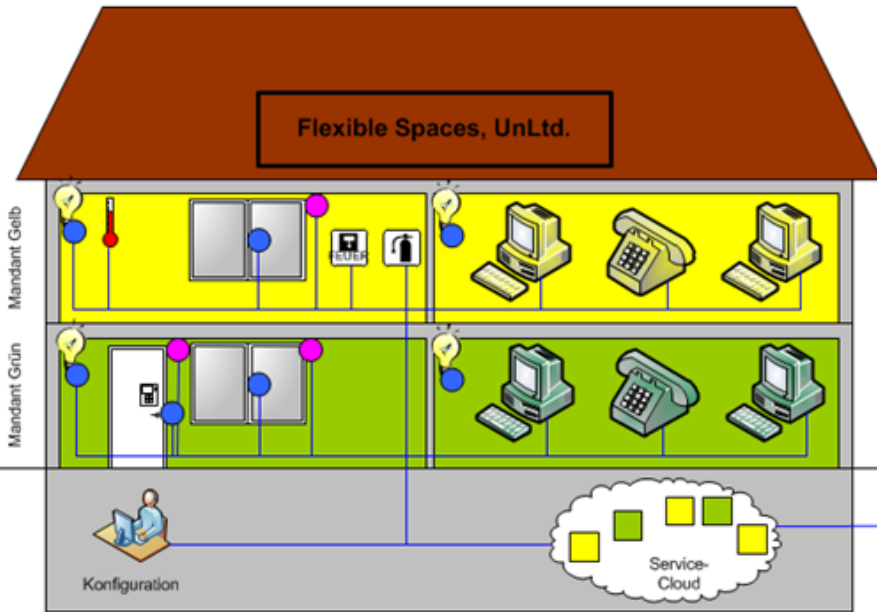


Externally  
Triggered In-  
building Service



none of the other

# BaaS: Building as a Service



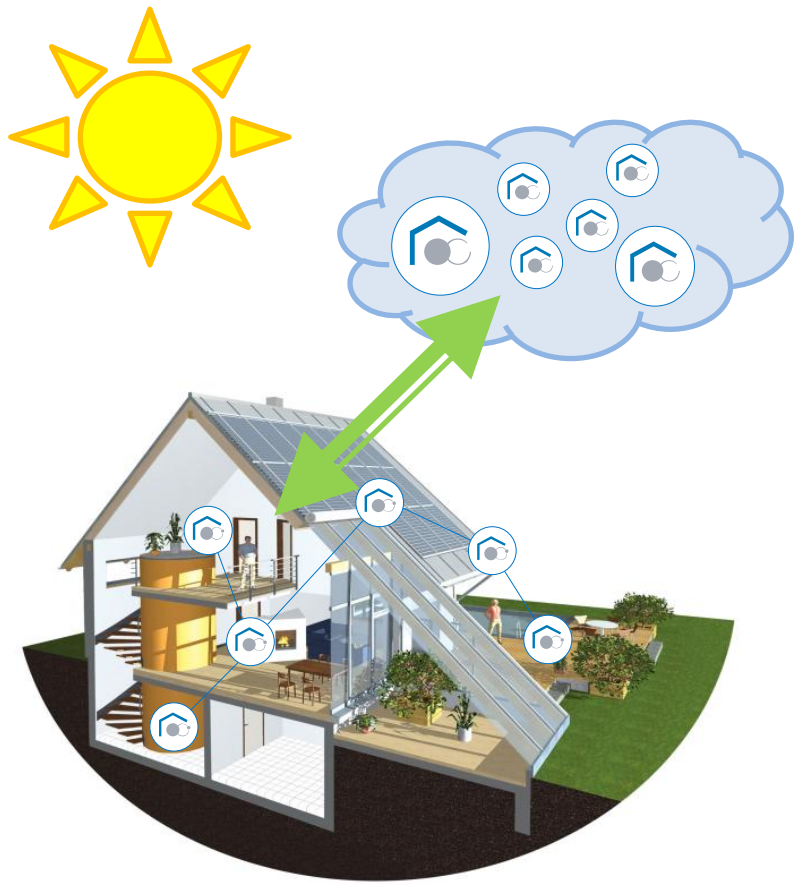
## Idea

- Users and use-cases change during the lifetime of a building
- Management of building resources like the management of virtual resources in computer clouds
- Scalable and affordable platform that adapts to the users needs

## Challenges

- Network Management
- Management and Control Platform
- Services
- Security

# Inside-Out: Services from the Cloud



## Key Facts

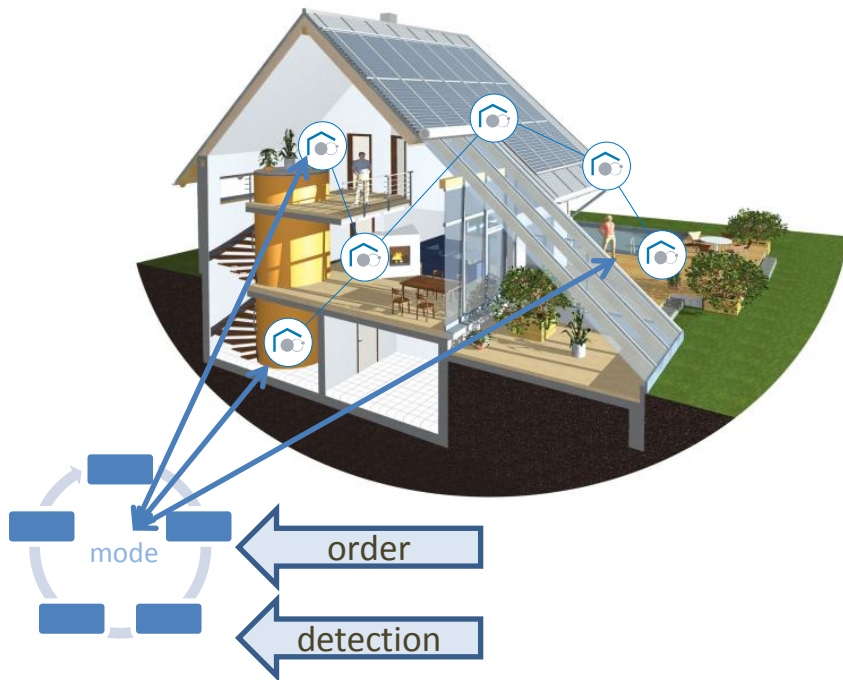
- Components inside a building are connected.
- The building is connected to the outside where services for the building are offered.
- The services cooperate outside the building.
- The maintenance of the services is outside the building.

## Some Challenges

- Privacy
- Security
- Resilience (Redundancy!)
- Scaling (Service Migration!)

# AutoSafe:

## Situation-dependent emergency-capable building adaptation



### Key Facts

- Resource availability reduced due to disasters, variation in energy generation, ...
- Emergency situation
- React by defining operational states
- Autonomic adaption to state

### Some Challenges

- Safety and Security
- Device support / No disruption for important services
- Coordination of autonomic activities / planning