



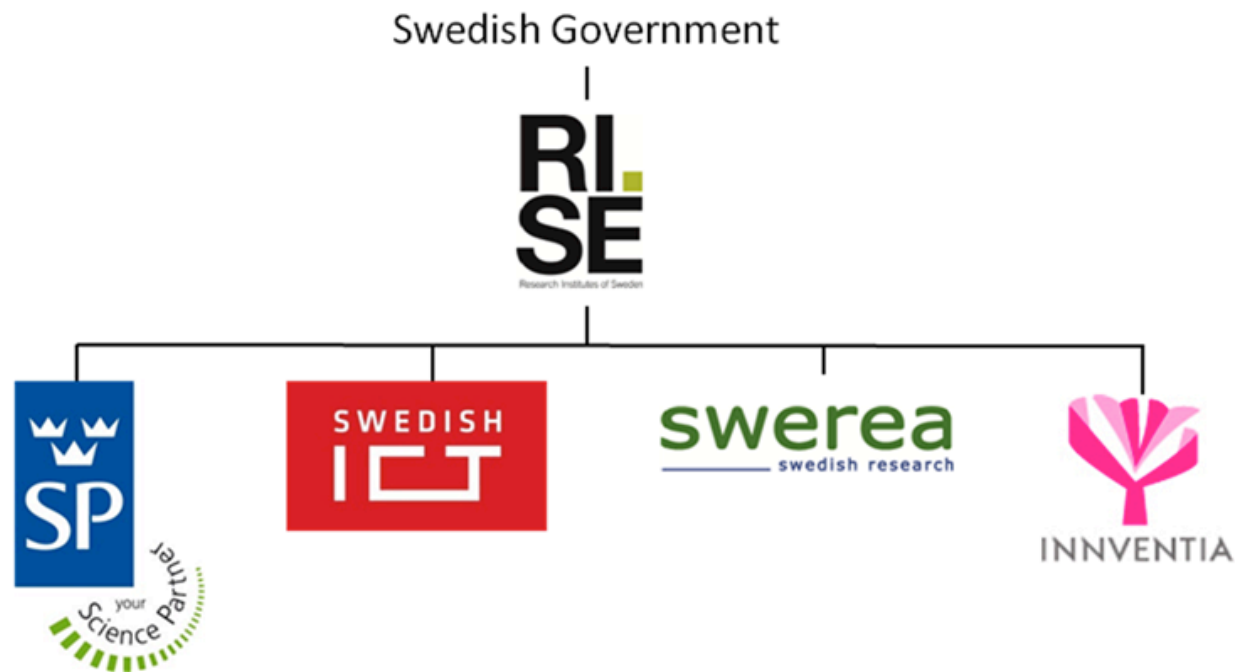
FUTURE ALLEY

Development of
sustainable lifestyles in
retrofitted apartments
with smart grid

CARIN TORSTENSSON & ELIN ÖNNEVALL,
INTERACTIVE SWEDISH ICT

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FUTURE ALLEY – RESEARCH PROJECT 2014 - 2017



AIM & OUTCOME

AIM

To analyze how *sustainable practices* can be developed in retrofitted rental apartments with *smart grid technology* and micro production of *solar power*.

EXPECTED RESULTS

Results should be applied in the development of technology for smart grids *in rental properties*

Expected to lead to *sustainable lifestyles* of the tenants and a *lower use of purchased electricity* compared to tenants in apartments without SG technology

EXPERIMENT IN VÄSTERÅS

- Duration time 3 years
- 18+1 renovated rental apartments
- Equipped with additional technology related to smart home and smart grid
- Project focus
 - Residents in focus
 - New role for the households
 - Product and service design

HOW DOES SMART GRID RELATE TO HOUSEHOLDS?



DYNAMIC PRICING

VISUALISATION OF THE ELECTRICITY USE

FLEXIBLE BEHAVIOUR

HOME AUTOMATION

CONNECTED APPLIANCES

MICRO PRODUCTION OF ELECTRICITY

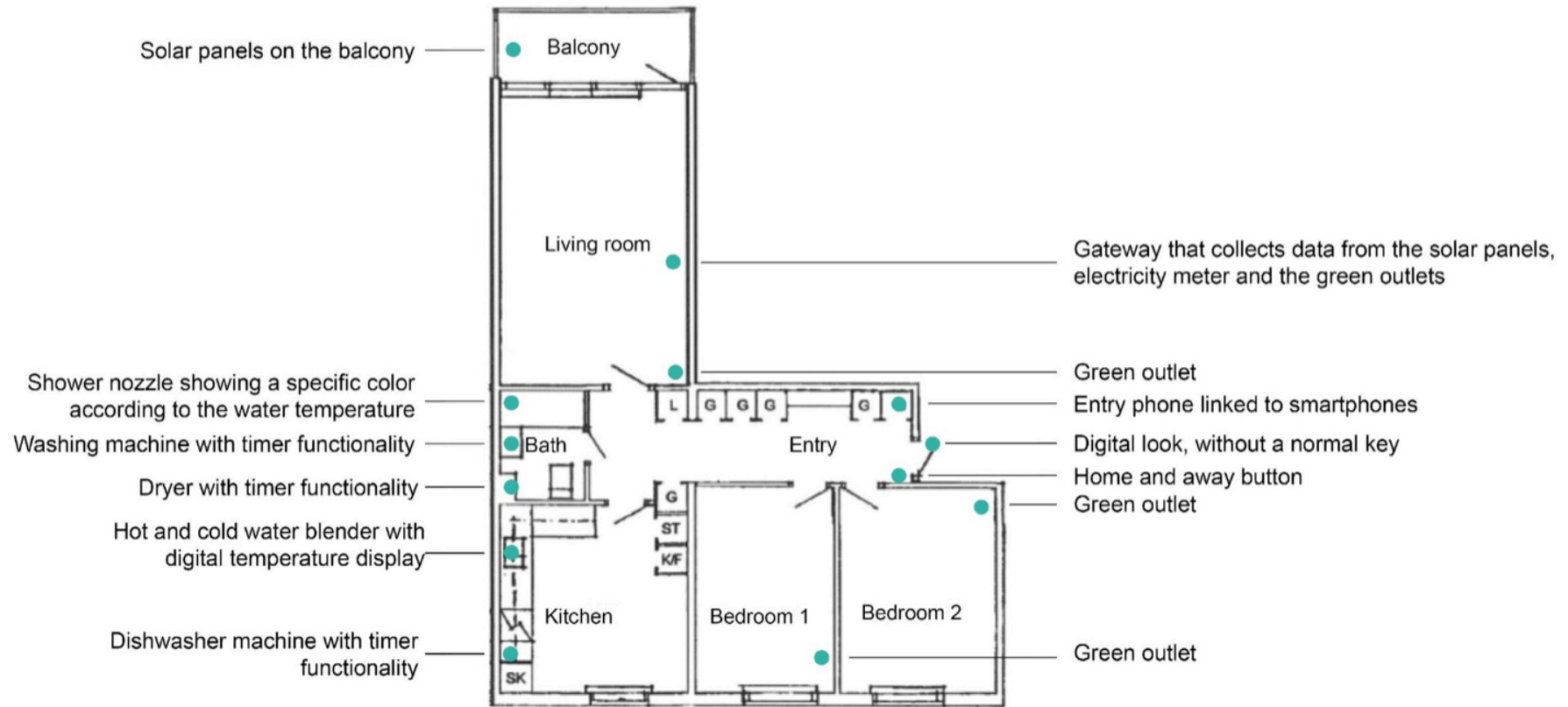
EVERY DAY PRACTICES



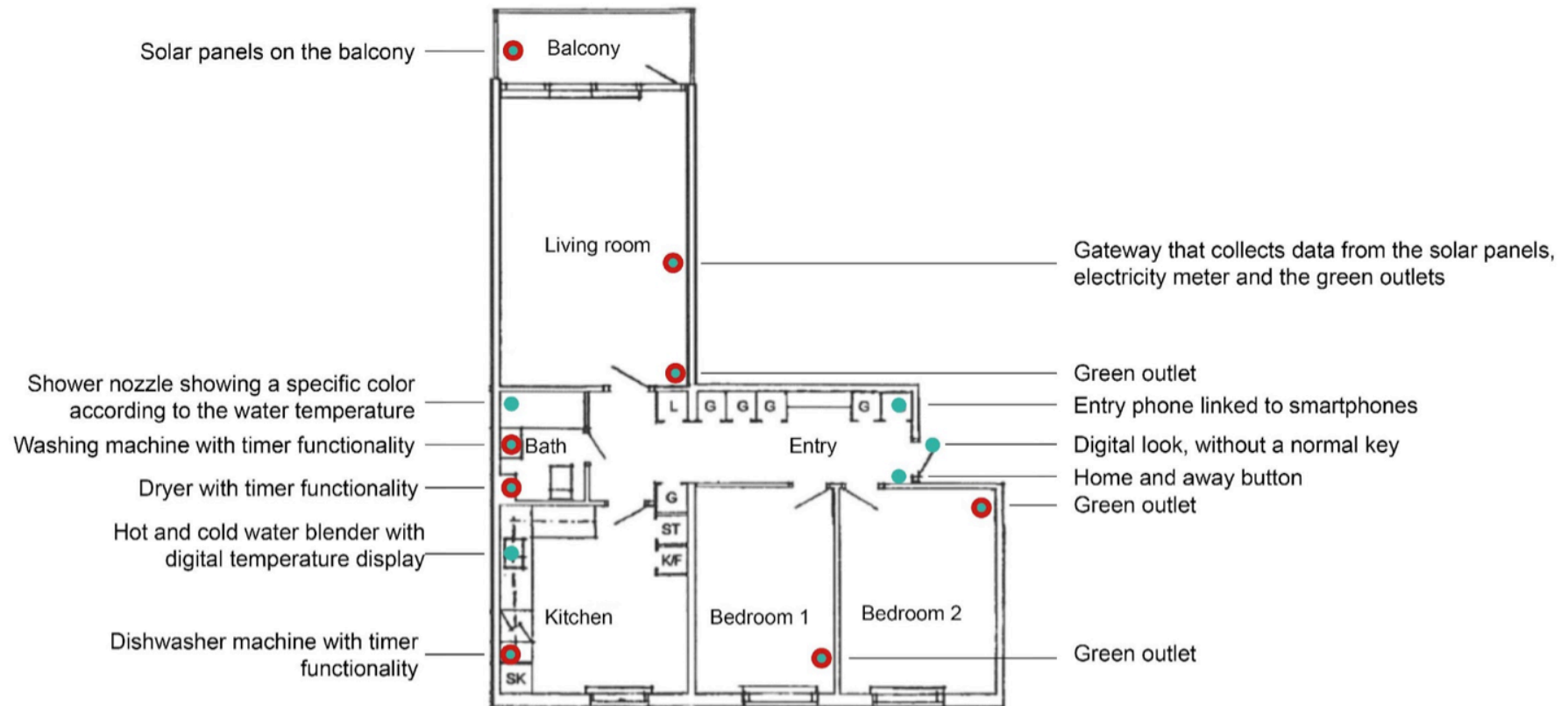
Sleeping...taking a shower...making breakfast...cooking dinner...eating...
washing...doing the dishes...watching TV...socialize with family and friends...
cleaning...sleeping again...



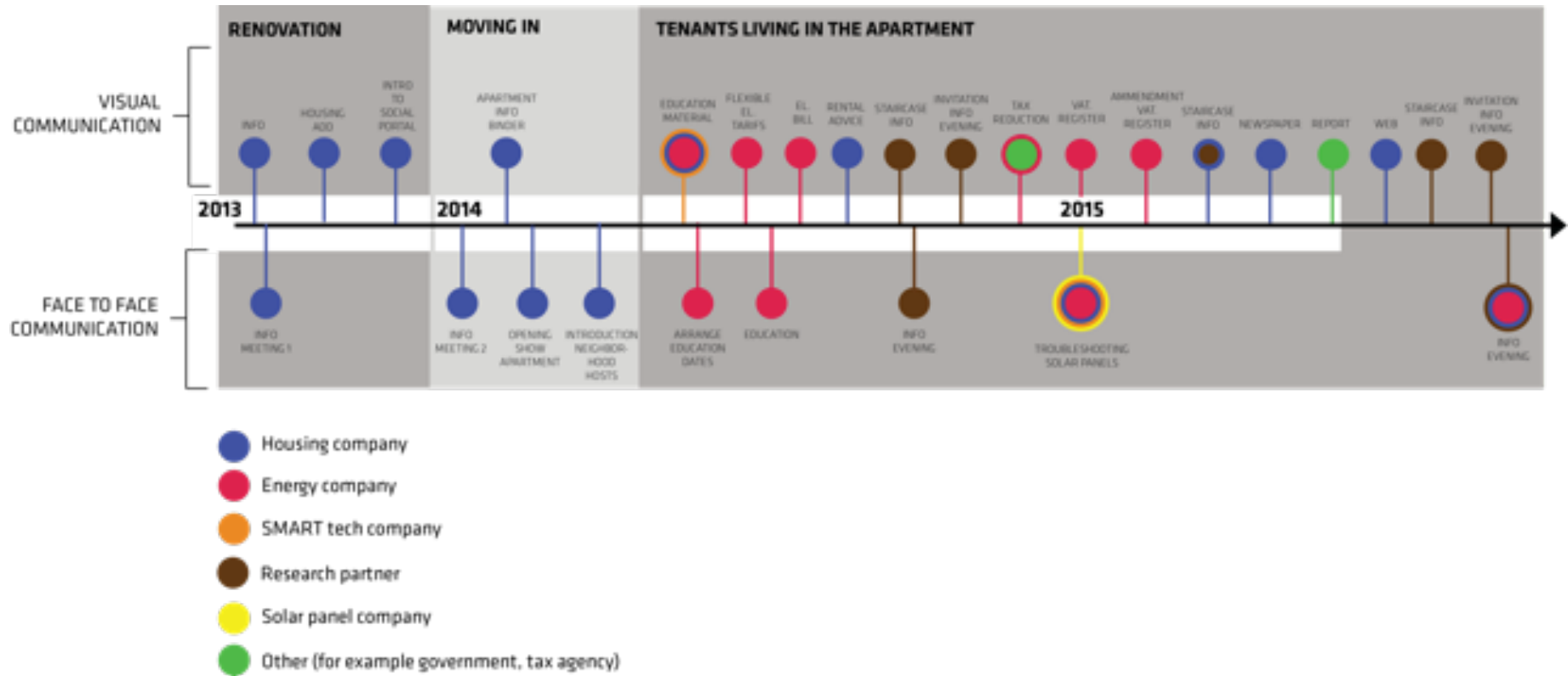
SMART TECHNOLOGY



SMART GRID TECHNOLOGY



COMMUNICATION TIMELINE



PRELIMINARY RESULTS

- Few practices and habits connected to smart grids today
- Communication of practices
- Focus on everyday lives
- User friendly and well designed interface
- Communication plan with clear roles
- Price is not an issue?

“FUTURE CATALOGUE”

Design tool based on data from interviews and workshops

Resemblance with the IKEA-catalogue

Motivation and engagement in the design

- Knowledge
- Feedback
- Esthetics
- Playfulness

Foto: Kim Norman

OTHER COMING RESULTS ...

Guidelines for actors developing and implementing technology for smart grids *in rental properties*.

Design concepts as inspiration for suppliers of smart grid services.

Thanks for listening!

WWW.TII.SE

carin.torstensson@tii.se
elin.onnevall@tii.se