



POLITECNICO
DI TORINO



e-Lite

Aml for Living Spaces

Theme of the year 2018

Fulvio Corno

Politecnico di Torino, 2017/2018



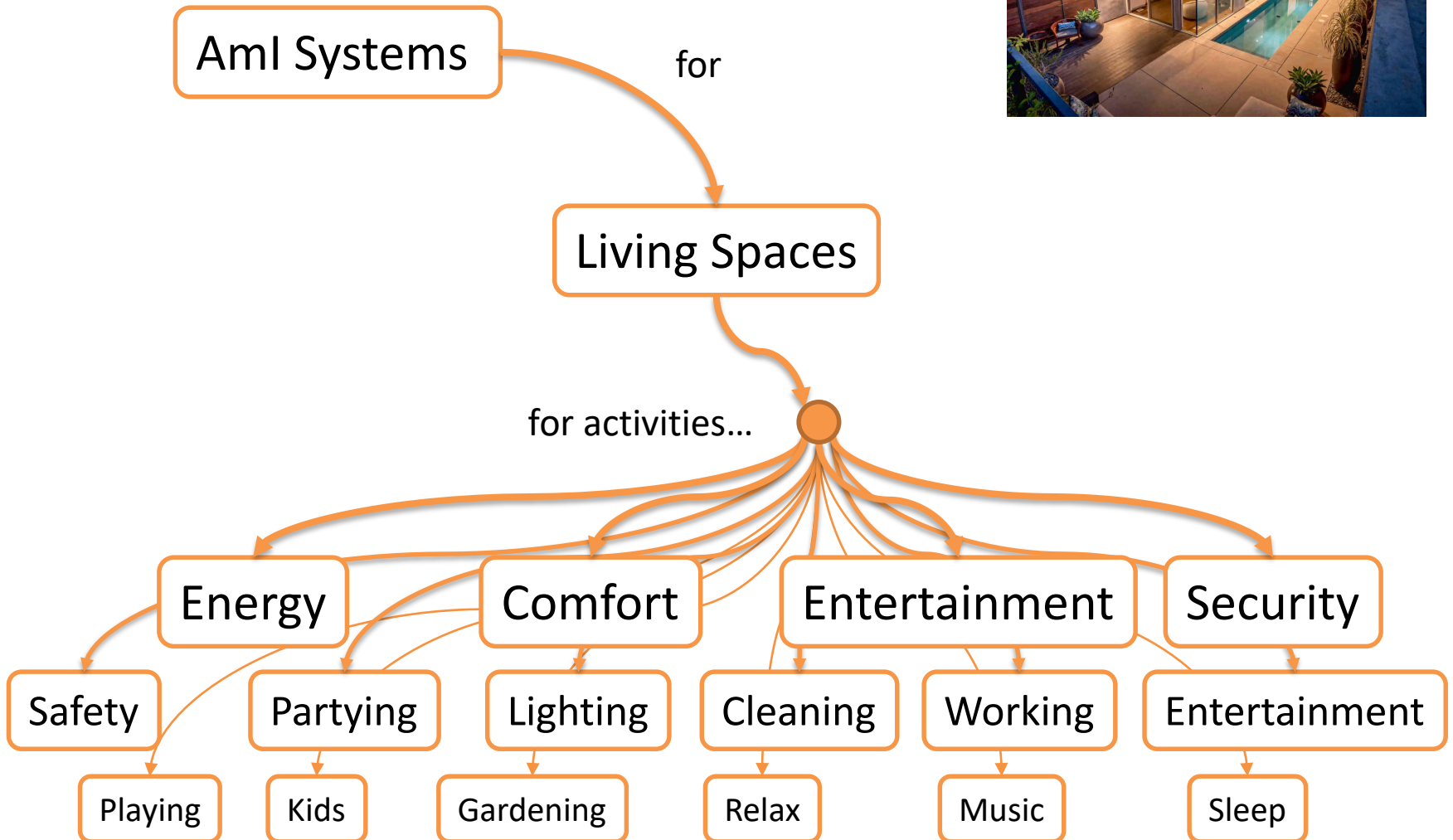
Summary

- Definition of the Theme
- Essential features
- How to proceed?
- Analysis of survey results
- Hints, ideas, suggestions

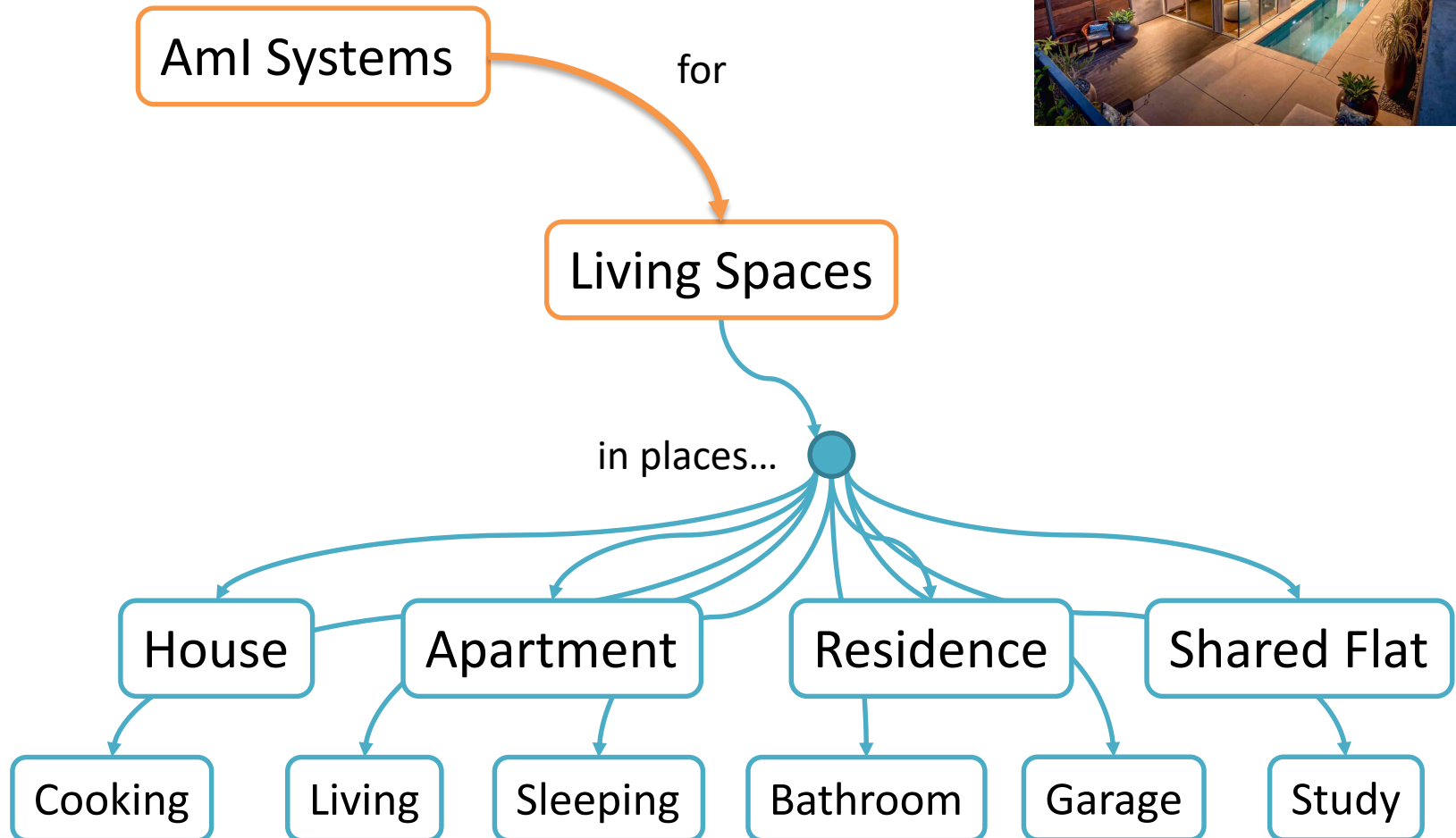
Aml for Sustainability

DEFINITION OF THE THEME

Theme of the year 2017



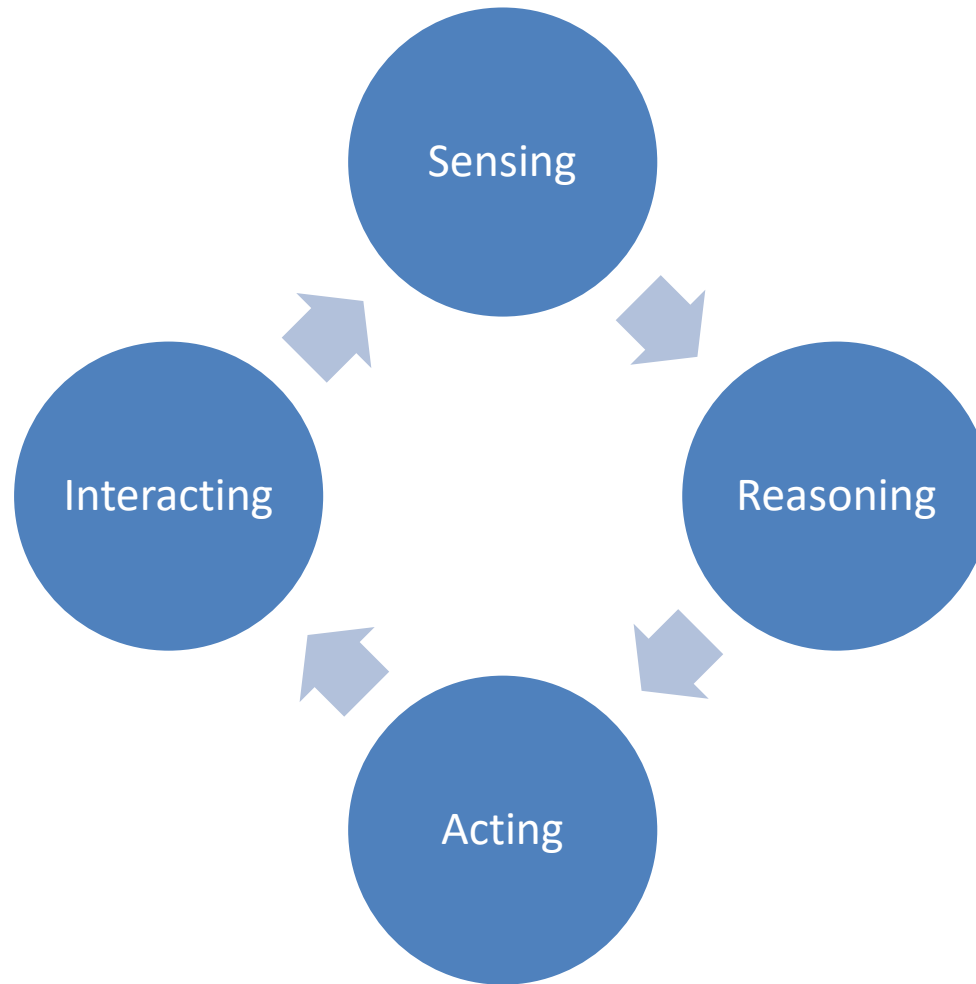
Theme of the year 2017



Aml for Sustainability

ESSENTIAL FEATURES

Include all 4 steps of Aml



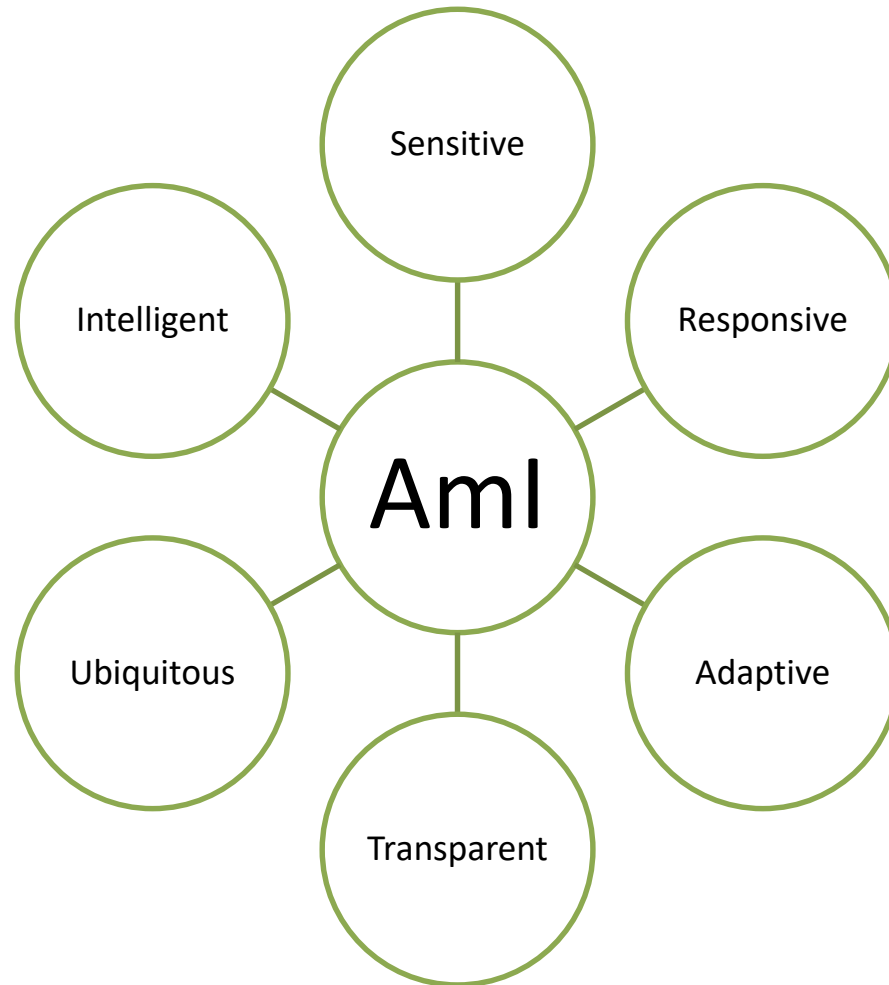
Corollary

- No **mobile**-only nor **software**-only nor **cloud**-only nor **wearable**-only nor **hardware**-only nor **embedded**-only solutions
- No totally automated behind-the-scenes solutions (that don't involve the **users**)
- Should involve some **sensing** (environmental, user, social, cloud, body, ...)
- Should involve some **actuation** (on the environment, user, social, cloud, ...)
- Should not be simply deterministic (some form of **adaptation/intelligence** is needed)

About Cloud

- Integrating with cloud services (Facebook, Google Calendar, Twitter, IFTTT, ...) or mobile services (location, activity, notifications, ...) can be very useful
- May be used as “sensors” or “actuators”
- But: Must not be the only sensor and actuator

Try to incorporate most Aml features



Additional constraints (1)

- We can't modify the infrastructure
 - Walls, doors, hallways, ...
 - Lighting, heating, cooling, Wi-Fi, Internet, ...
 - Additional devices are ok
- Feasible with existing equipment
 - Devices available in LADISPE
 - Devices you own or you may lend
 - Cheap devices that may be purchased

Additional constraints (2)

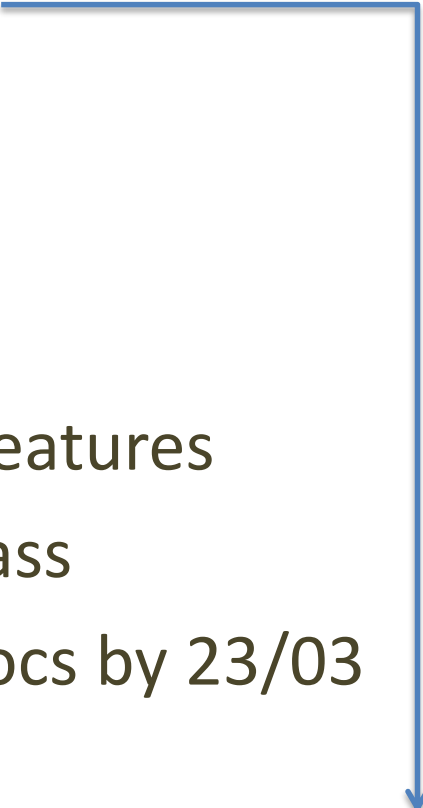
- Easy to demonstrate
 - Easy to show in a lab setting
 - Easy to be moved, installed elsewhere
 - No permanent installations required
 - Except in special “safe” places (Ladispe, some office, some department, ...)

Aml for Sustainability

HOW TO PROCEED?

Immediate next steps

- By 18/03 (upload on Google Docs)
 - Group composition
 - Submitting ideas
 - Title
 - [very] short description
- Already think at Aml steps & Aml features
- Teacher validation during 19/03 class
- Final version on another Google Docs by 23/03



https://docs.google.com/document/d/17qU_jNRfiHvDXSH4cfhyw4EFIOTNuRMpW7WHDKaz_Gs/edit?usp=sharing

Submission Format

GROUP NUMBER XX

Team Members

- Team member 1, email, GitHub username, role in the project
- Team member 2, email, GitHub username, role in the project
- Team member 3, email, GitHub username, role in the project
- [Team member 4, email, GitHub username, role in the project]

Project Acronym: XXXYYYZZZ

Project Title

this is the title

Description

5-10 lines describing the project from the user's point of view. Don't mention technologies nor devices.

Submission Format

GROUP NUMBER XX

Team Members

- Team member 1, email, GitHub username, role in the project
- Team member 2, email, GitHub username, role in the project
- Team member 3, email, GitHub username, role in the project
- [Team member 4, email, GitHub username, role in the project]

s123456
Corno
Fulvio

Polito mail
or
Personal mail
(that you'll
check
regularly)

@fulcorno

One or more of:

SW developer (front-
end, back-end,
mobile, ...)
HW developer
Physical designer
Etc.

Submission Format

GROUP NUMBER XX

Team Members

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- Team member 3, email, GitHub username, role in the project
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What are the benefits for the user?
What are the main features?
Why should they want it?
How does it blend in their life?

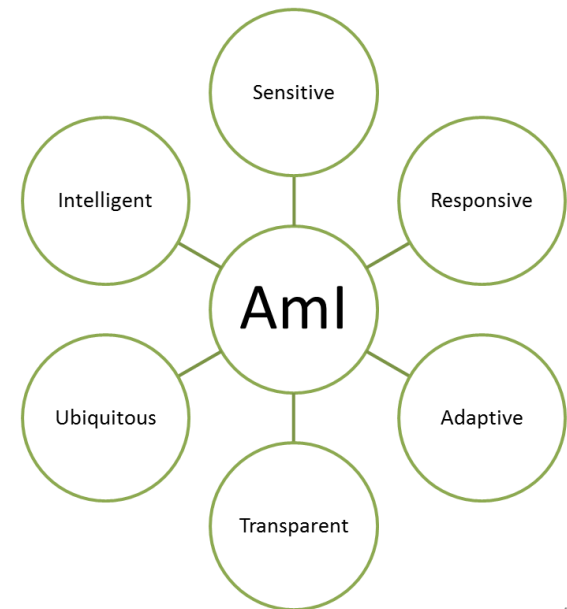
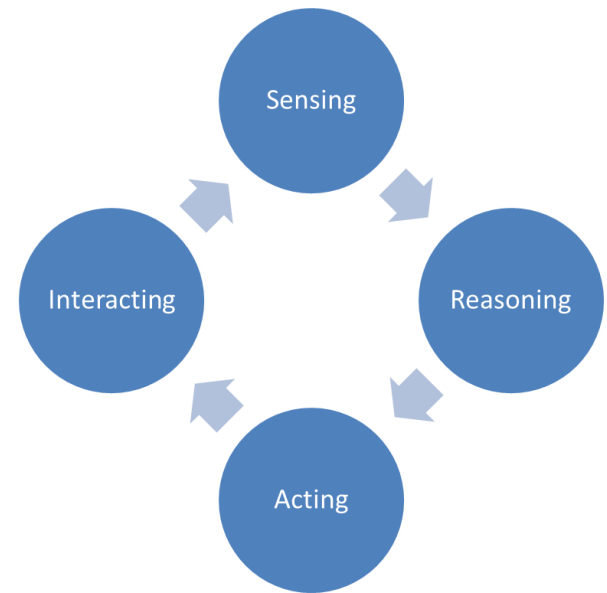
Description

5-10 lines describing the project from the user's point of view. Don't mention technologies nor devices.

Really!

Final tips

- Be creative
- Exploit your skills or passions
- Concentrate on 2-3 key features
- What will your users like?
- Avoid too much “integration” or “device support” or “data processing” work



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