



POLITECNICO
DI TORINO



e-Lite

Theme of the year 2019

Fulvio Corno

Politecnico di Torino, 2018/2019





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Aml for Mobility

Theme of the year 2019

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Summary

- Definition of the Theme
- Essential features
- How to proceed?

Aml for Mobility

DEFINITION OF THE THEME

Theme of the year 2019

Aml Systems

for

Mobility

in places...

Car

Bus

Street

Train

Bike

Sidewalk

Bus Stop

Open space

Metro

Station

Plane



Theme of the year 2019

Aml Systems

for

Mobility

for users...

Passenger

Car Driver

Biker

Pedestrian

Commuter

Taxi Driver

Police

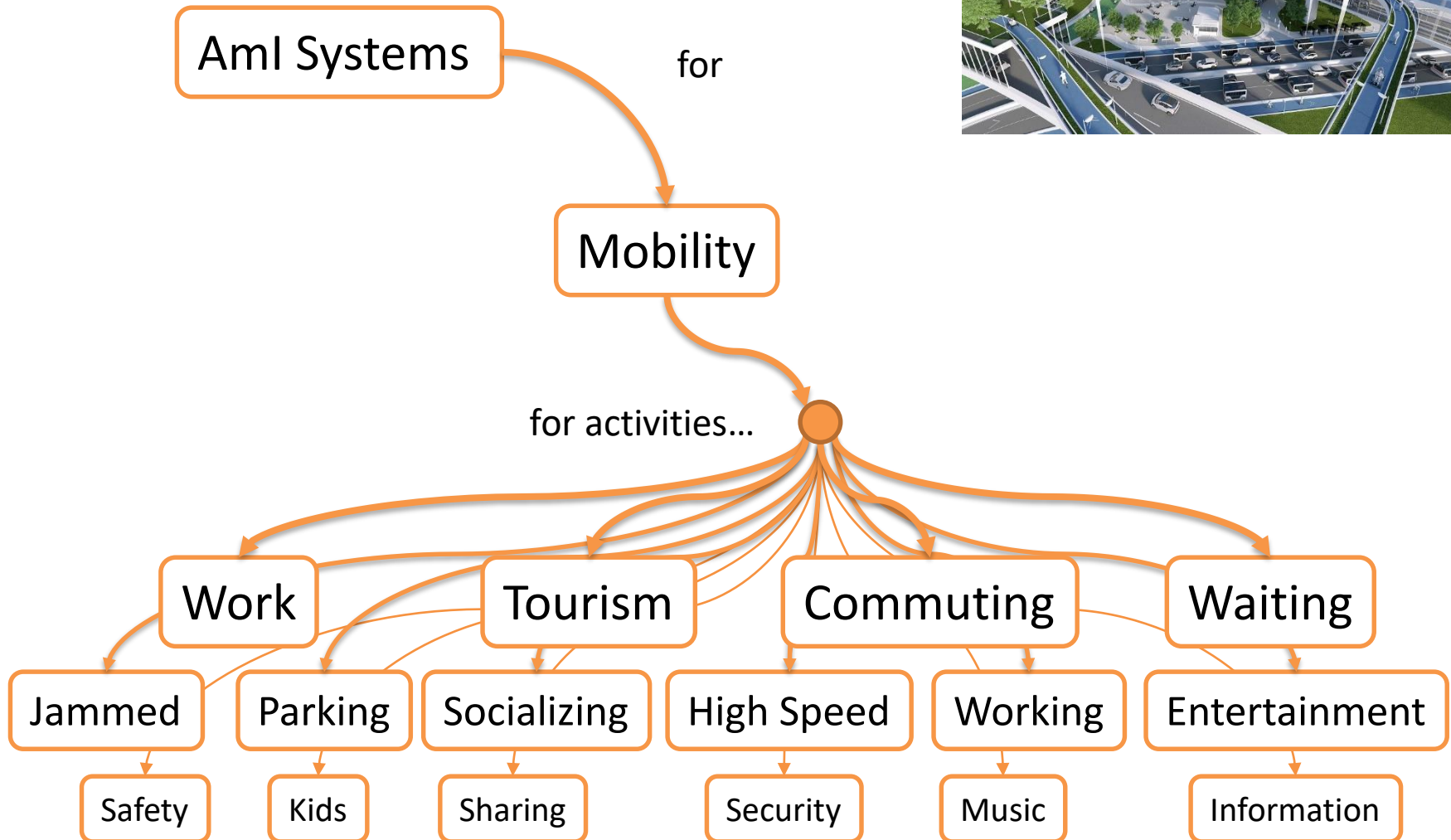
Bus Driver

Runner

Ambulance



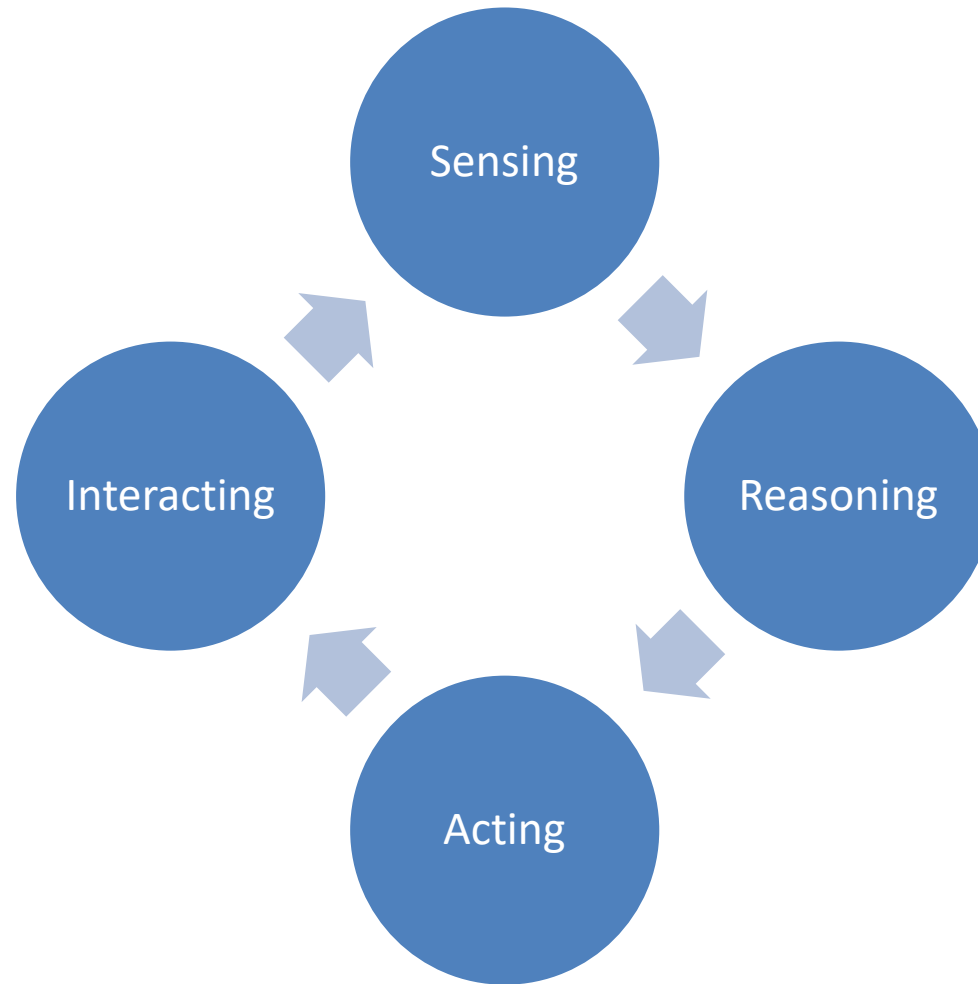
Theme of the year 2019



Aml for Mobility

ESSENTIAL FEATURES

Include all 4 steps of Aml



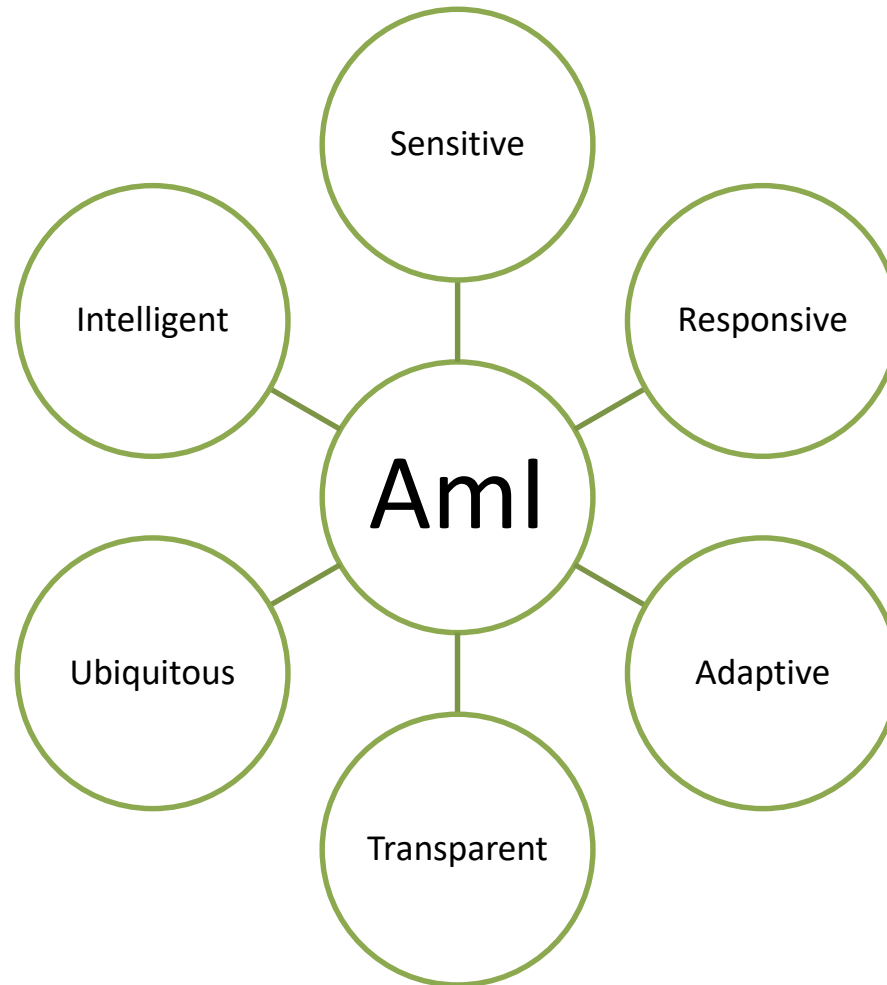
Corollary

- 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 Mobility

HOW TO PROCEED?

Immediate next steps

- By 17/03 (upload on Google Docs)
 - Group composition
 - Submitting ideas
 - Title
 - [very] short description
- Already think at Aml steps & Aml features
- Teacher validation during 18/03 class
- Final version on another Google Docs by 24/03



<https://docs.google.com/document/d/1HUxltYx1aIU59Bmnjuz1WtKS0rePtmCner8ualfjQu8>

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

- 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

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

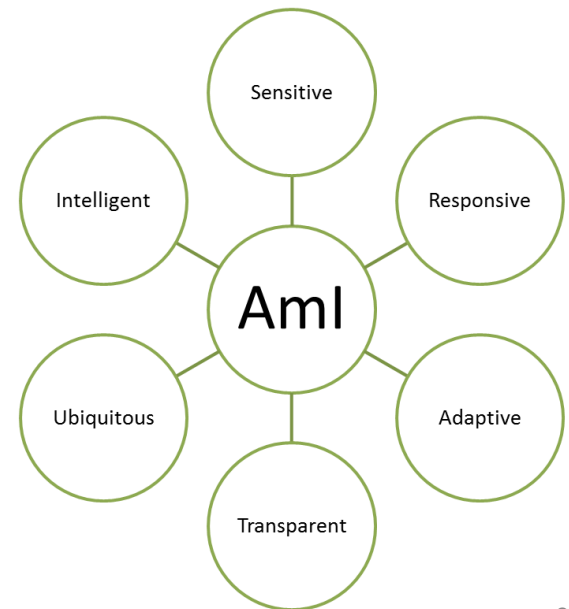
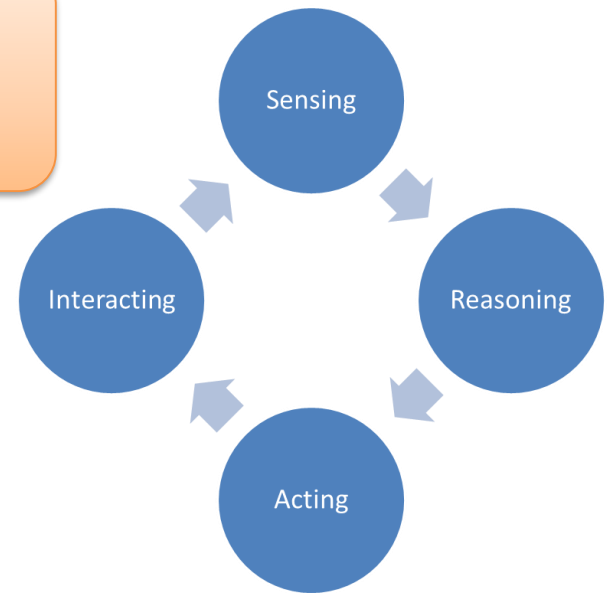
5-10 lines describing the project from the user's point of view. Don't mention technologies nor devices.

Really!

Final tips

Aml for Mobility

- 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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