



POLITECNICO  
DI TORINO



e-Lite

## Theme of the year 2019

Fulvio Corno

Politecnico di Torino, 2018/2019





POLITECNICO DI TORINO



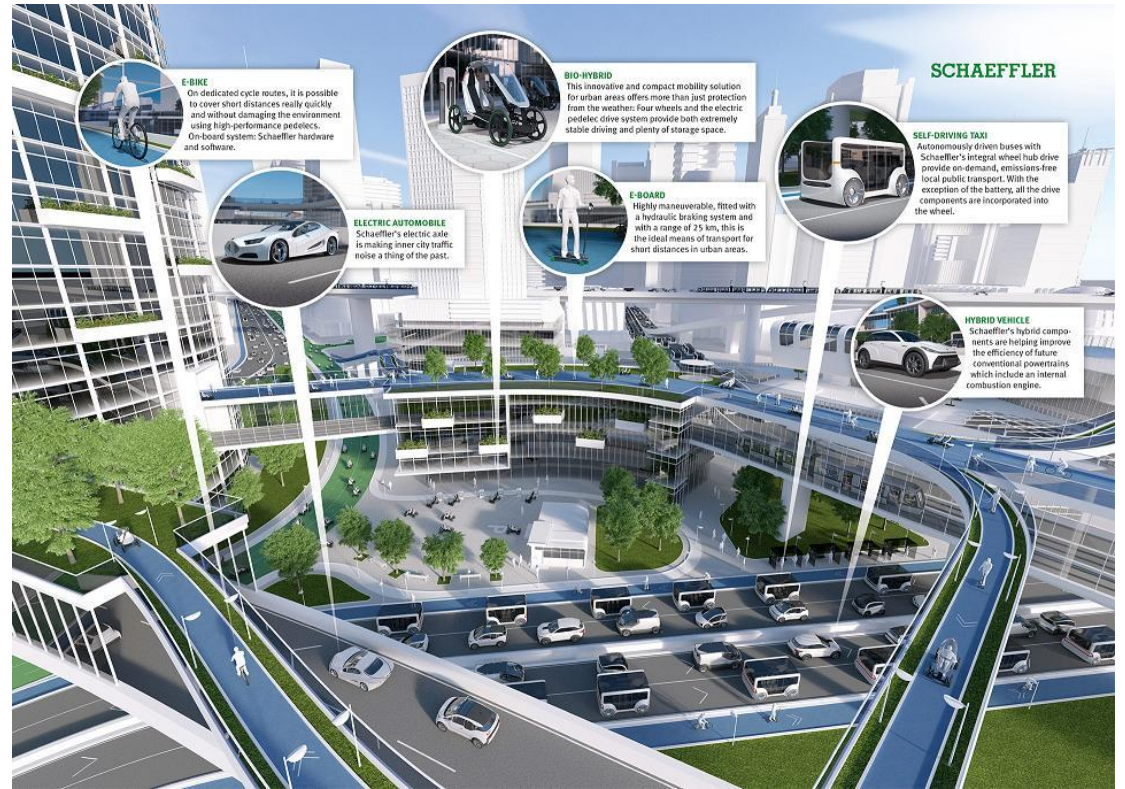
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# Aml for Mobility

Theme of the year 2019

Fulvio Corno

Politecnico di Torino, 2018/2019



# Summary

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

# Aml for Mobility

Aml for Mobility

## **DEFINITION OF THE THEME**

# Theme of the year 2019

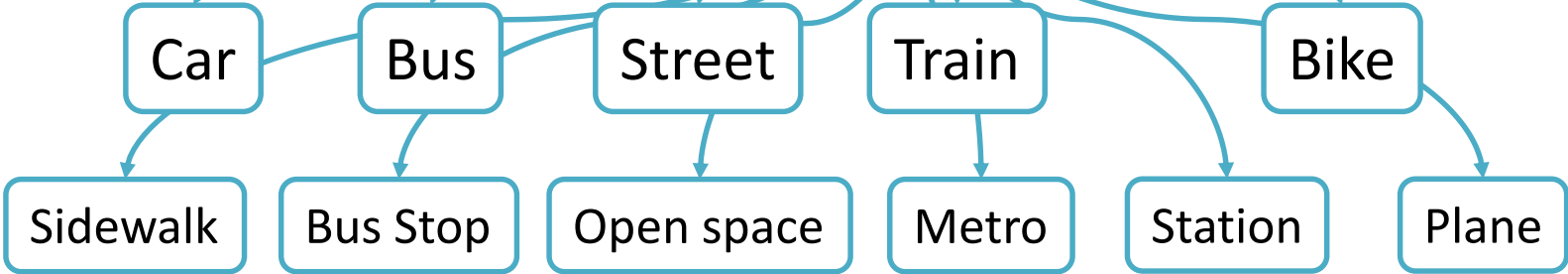


Aml Systems

for

Mobility

in places...



# 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 Systems

for

Mobility

for activities...

Work

Tourism

Commuting

Waiting

Jammed

Parking

Socializing

High Speed

Working

Entertainment

Safety

Kids

Sharing

Security

Music

Information

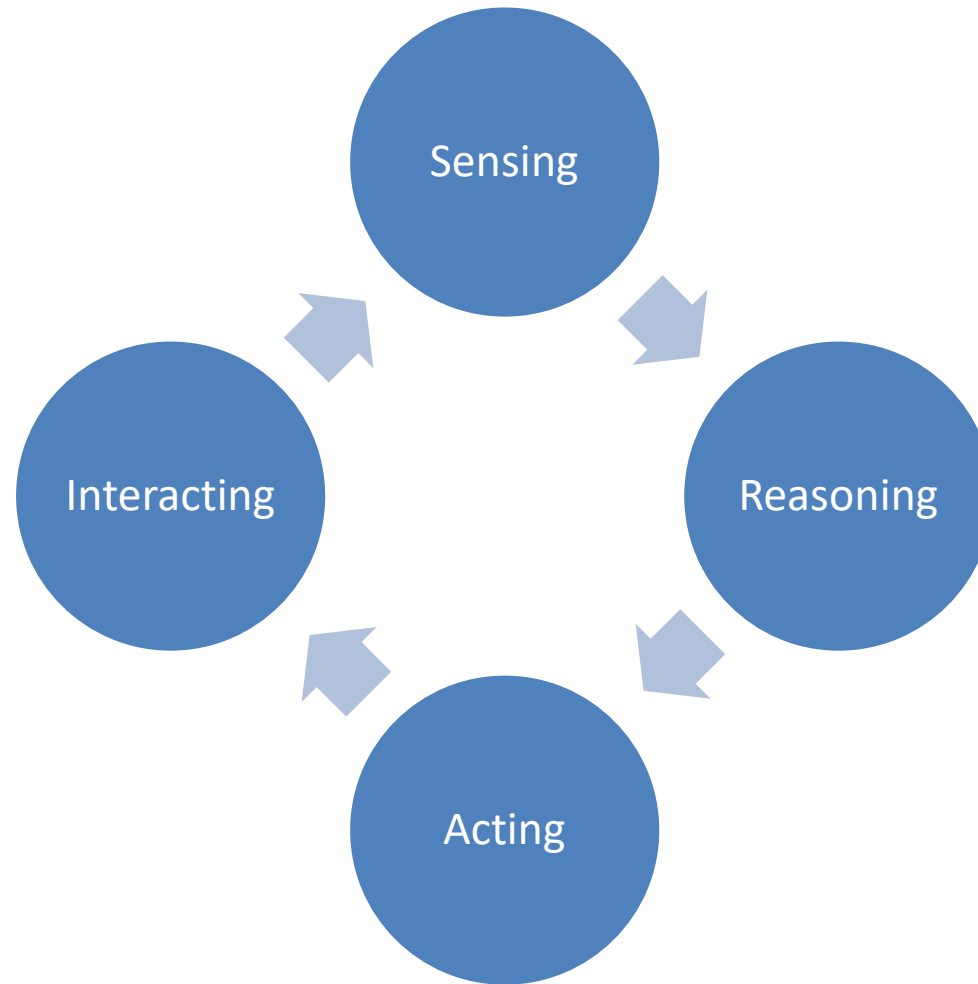


Aml for Mobility

# **ESSENTIAL FEATURES**



# Include all 4 steps of Aml



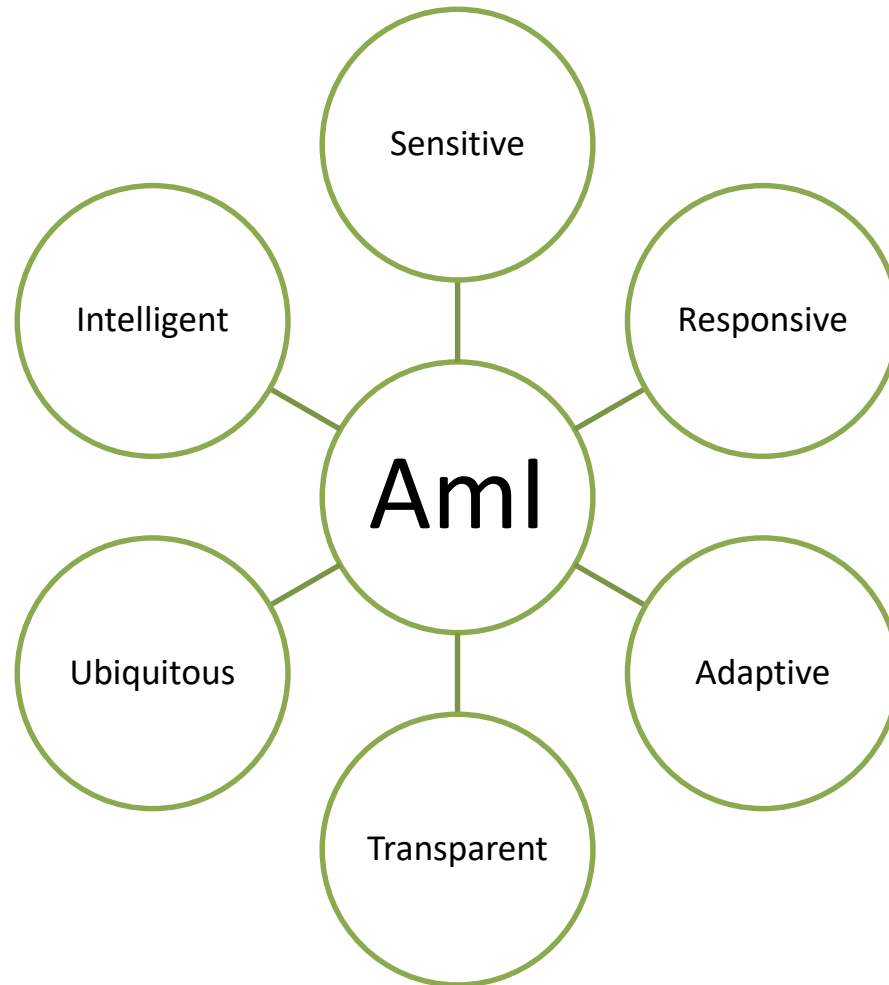
# Corollary

- 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





# 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
- 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**

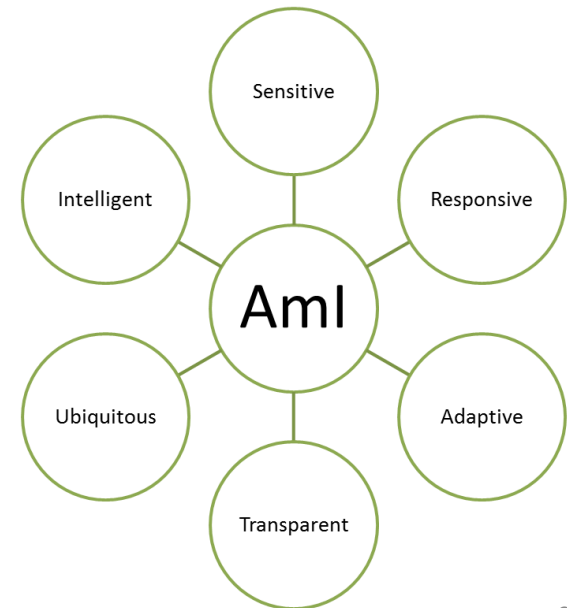
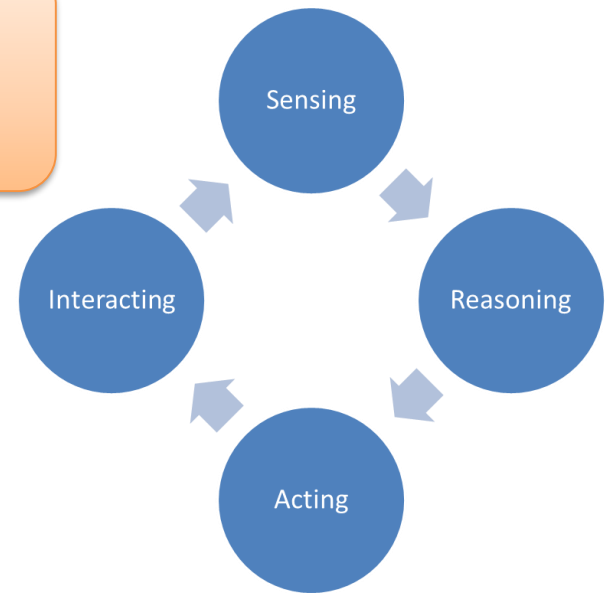
5-10 lines describing the project from the user's point of view. Don't mention technologies nor devices.

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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