Ambient intelligence assignment - 1

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1 Introduction

This paper is based on four brief stories, taken from "Scenarios for ambient intelligence in 2010", and it underlines which technologies form the stories exist and which ones don't.

1.1 The four stories

Table of data to see the results as a glance:

	What we have now	What we don't have now
	Links/pictures	But may have in the close future
Maria	Car that opens at approach and starts with button	P-Comm technology
	Priority for car in city center	En casa technology
	Adjust lights with voice	Room that adopts your personality
	Communication threshold for incoming calls and messages	Possibility to command bath
	Cardio monitor and video wall	Possibility to "Localise your presentation"
Dimitros	"being in communication with mankind"	D-me answers calls acting as a person
	D-me learns about the person	D-me takes decisions that affect other people
	Contact people from everywhere in the world	Displayphones to get calls
Carmen	Contact people to drive to places	Car biosensor for smoke
	Food delivery and smart delivery boxes	Shop on the fridge
	Guidance system for traffic	Check the status of your purchases everywhere
	Ads on your favourite items on sale	Automatic payment of car and entering city center
	Sensor for bikes	High pressure belt above city
	E-fridge for missing ingredients in recipe	City engine control sys reduces velocities
Annette and Solomon	Technology and mentor "work together"	Ambient accesses agendas for scheduling
	Conversation with ambient	Ambient asks how you feel with study, gives suggestions
	Ambient suggests interaction between people	Enhanced interactive simulation and projection facilities

Below are shown a few explainations of the data written in the table.

1.1.1 Maria

The virtual assistant AI technology Alexa from Amazon allows to dim or swich on and off lights as in the story. Here are some of the varieties of commands that can do so, for example:

Turn lights on or off: "Alexa, turn on the lights" or "Alexa, turn off the living room lights." Dim the lights: "Alexa, dim the lights to 50 percent."

Change the color of the lights: "Alexa, make the living room lights red" or " Alexa, turn the lights to soft white."

However, a room that adopts your personality doesn't exists, but some technologies go in this direction. For example there's an app, Sleep Cycle, whose alarm clock wakes you up while you're in light sleep to improve the quality of your sleep https://play.google.com/store/apps/details?id=com.northcube.sleepcycle&hl=en_US.

1.1.2 Dimitros

Being in communication with mankind is possible through social networks. Moreover, some of the apps we use, such as Facebook or Amazon, learn about our preferences to send us specific advertisements.

However it is still not possible that a technology such as D-Me could have so many responsibilities

such as taking decisions in your place. Nowadays it would be very difficult to implement such a technology, due to the Laws of the countries.

1.1.3 Carmen

Blabla car allows drivers to share car trips with other people, and Uber specifically allows a parallel system of taxis.

Additionally, food delivery has been part of our lives for years as well as Amazon lockers and Amazon counters: https://www.amazon.it/b?ie=UTF8&node=16679461031

However, we don't have the possibility to shop on the fridge screen yet, but it will probably happen soon, since smart fridges already exist and have multiple functionalities such as cameras, recipes saved on screen, possibility to put some music on.

1.1.4 Annette and Solomon

Teachers for the driving licence course use people's personal scoring on the app to keep track of their errors and suggest them what to study more depending on their knowledge gaps. It is of course different from a mentor interacting with an A.I., but it is an example of a simpler technology with the same goal.

However, even though many apps may have access to personal calendars, they can just add events, but can't yet check the other events in order to schedule appointments.