

COURSE CODE	EM054M8AA1	SCORE	INCLUDED IN 30% OF THE FINAL EXAM SCORE
LEVEL	PGE – 2A	PROFESSOR	SAMIA GAMOURA, PH.D.
CONTEXT	PROJECT MANAGEMENT		
TITLE	LOGISTICS PROJECT MANAGEMENT		

CASE STUDY

DISASTER MANAGEMENT IN LOGISTICS PROJECT MANAGEMENT CASE OF COVID-19 LOCKDOWN AND IMPACT ON THE LAST MILE LOGISTICS

DESCRIPTION

The COVID-19 is causing a massive Disaster to humanity nowadays, and thus revolutionizing the way logistics operate. The effects of this pandemic are impacted the logistics project management and continue affecting the whole logistics system. Due to periods of lockdown, the logistics activities have been accelerated because of the online orders explosion. Simultaneously, the work intensity has decelerated down or reorganized because of closing the sales-points or the sanitary distancing protocol.

Because of these motives and the strict or moderated lockdown, especially in urban zones, the human-to-human transmission must be avoided when delivering goods to the customers. That inevitably has a direct impact on the last-mile delivery. Therefore, many companies are adjusting the system of delivery of the last mile by introducing innovative solutions.

Try to propose a project to present an innovative solution for the last-mile delivery during the COVID-19 strict lockdown (human-to-human distancing).

GROUPS

Each student is free to choose or form his group. These are the parameters of your groups:

Min members per group	1*
Max members per group	4
A student cannot belong to 2 groups at the same time	

* Please note here that a student can choose to be alone in his group (individual work). However, he has to belong to a named group even he is alone.

AVAILABILITY AND IMPORTANT DATES

Allow submissions of works from the date	November 17, 2020 02pm00
Due date **	November 24, 2020 02pm00
Required to belong to a group to submit	YES (No individual submission is accepted)
Require all the group members to submit	YES

** Groups (Students) who cannot submit through Moodle must send me their works by email to samia.gamoura@em-strasbourg.eu. In this case one student must send the email and the other members must be in Cc of the same email. However, they have to respect the schedule of the exact dates. No work will be accepted by email out of these dates.

OBJECTIVE

Each group has to choose a solution in the proposed list below or find his idea, to face the challenge of the last-mile delivery when human-to-human distancing is mandatory because of the strict pandemic lockdown COVID-19.

- Truck-drones delivery (Appendix 1, images 1-2)
- Urban Picking-up Boxes (Appendix 1, images 3-4)
- Robot Delivery Dogs (Appendix 1, images 5-6)
- Autonomous Delivery Vehicles -Trucks and Vans (Appendix 1, images 7-8)

WORK TO DO

Prepare a report using a text editor (ex. MS Word, WPS Office Writer, LibreOffice Writer, etc.). The number of pages must be between **3** and **7** pages, including figures and/or tables (not more than **3** figures/tables).

In your report plan, you have to develop and argue the following plan:

Context and Problem

1. Describe the challenge of last-mile delivery in urban zones.
2. Describe the new challenge of the last-mile delivery when human-to-human distancing is mandatory because of the strict pandemic lockdown of COVID-19.

Solution and Project

Imagine you are a project leader/manager for the last-mile delivery in a logistics company.

3. Describe the solution you propose to face this challenge during the lockdown of COVID-19.
4. Describe the advantages of the solution.
5. Describe the limits and disadvantages of the solution.
6. Propose the Master-Plan and the Budget for your project to implement your solution. Your master plan must include – at least- the procurement, the resources, and the maintenance charges.

Conclusion and Criticism

7. Do you recommend the project/solution? Why?

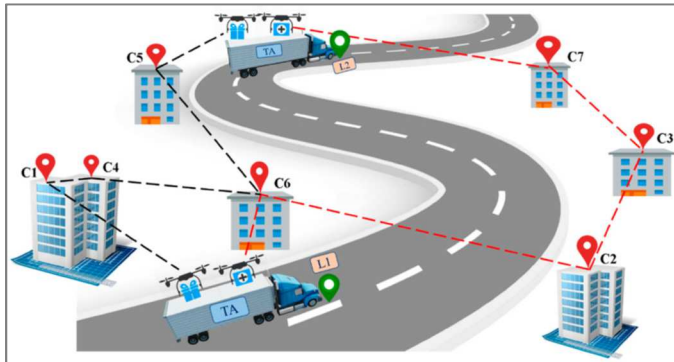
REMARKS

- All the members of the group must participate in writing the report. You have to mention each member's name with the work (task) he/she performed.
- The report must be delivered in PDF format in Moodle (Case Study Repository in the 8th session). Groups (students) who cannot submit through Moodle must send me their works by email to samia.gamoura@em-strasbourg.eu. In this case, one student must send the email, and the other members must be in Cc of the same email. However, they have to respect the exact date's schedule. No work will be accepted by email out of these dates.
- Groups are not fixed. They can change. You have the freedom to create them and change them at any time on Moodle.

Note: This case study is evaluated and included in the practical score (30%)

APPENDIX 1

Solution 1: Truck-drones delivery



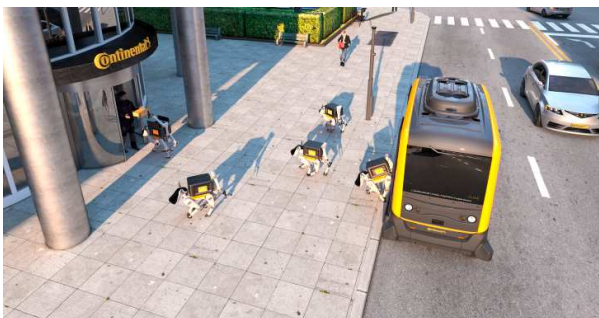
Images 1-2

Solution 2: Urban Picking-up Boxes



Images 3-4

Solution 3: Robot Delivery Dogs



Images 5-6

Solution 4: Autonomous Delivery Vehicles - Trucks and Vans



Images 7-8