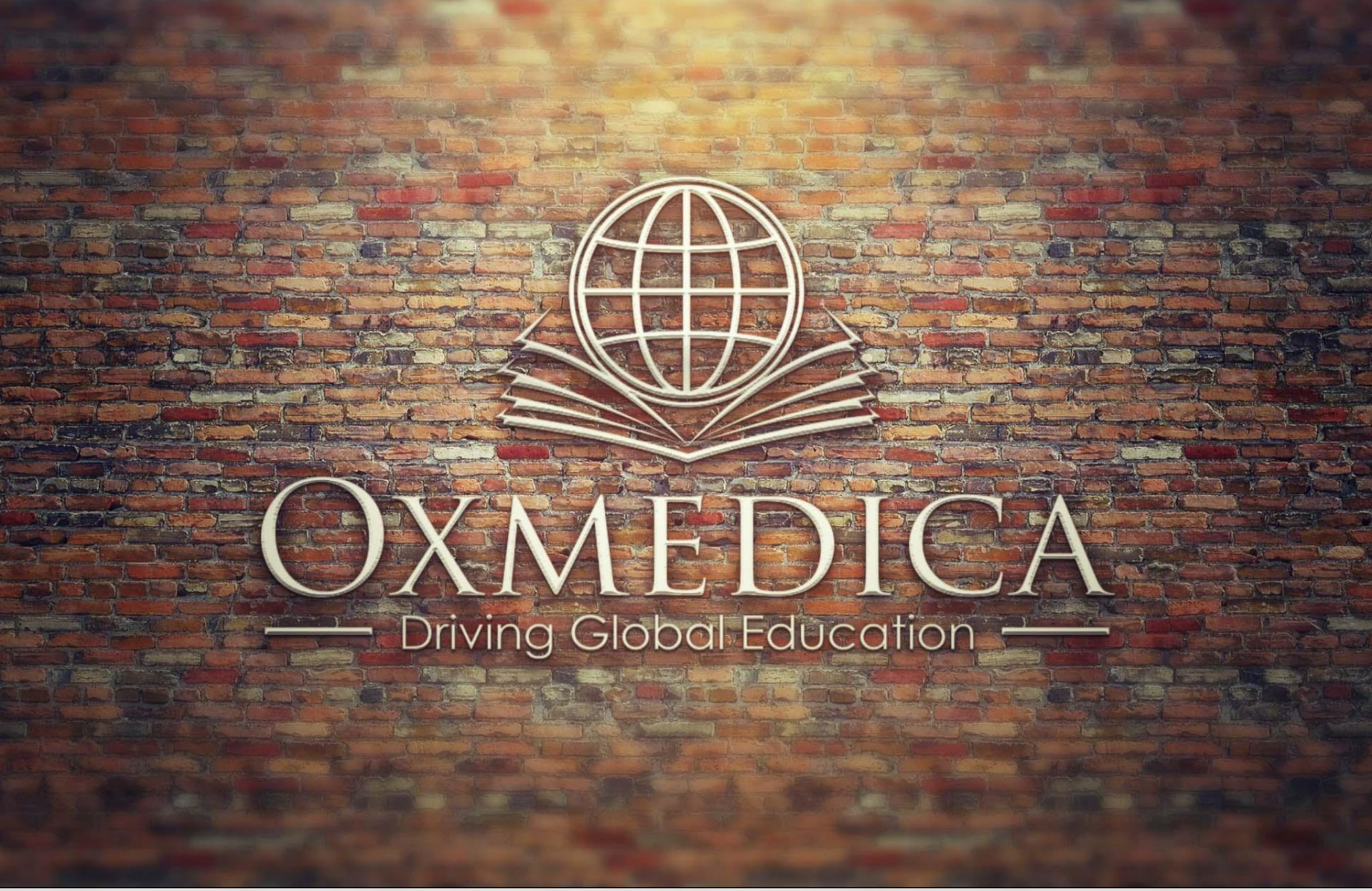

Group Project Session 1

Group Project Overview

- STEM classes — 08:30 - 12:45, everyday
  - With the whole of your class
- Group project — 14:15 - 15:30, everyday
  - Half of my class (AI and Big Data)
  - Half of the Engineering the Future class

What is the group project?

1. One problem to work on for 2+ weeks in groups of 4-5 students
2. Independent work with guidance and prompts from the tutors
3. The group project will compose a decent portion of your final grade

Timeline

- Week 1
  - Research about the question
  - Thinking about your approach
  - Planning your solution

- Week 2
  - Planning your solution
  - Deck preparation
  - (field trip so one less session)

- Week 3
  - Deck preparation
  - Presentation prep
  - In-class presentations **(16th July)**
  - Group presentations (one group from this class) **(17th July)**

Class breakdown

- Class 1: Project brief + groupings + brainstorming
- Class 2: Research
- Class 3: Research
- Class 4: Research
- Class 5: Consolidation
- Class 6: Deck prep
- Class 7: Deck prep
- Class 8: Deck prep
- Class 9: Practice rounds 1
- Class 10: Incorporation of feedback
- Class 11: Practice rounds 2
- Class 12: Final edits

What we're looking for

- A novel solution to the task
- A strong final pitch about 10 minutes per group
- Good visual aids (likely slide deck)
- Everybody in the group contributing

What is our task?

- Groups must design a **AI-based startup** to operate in a **modern tech city** (think 5-10 years in the future).

- The startup must propose a technical approach to solving a problem you suspect will be likely in such a future city.

- In the final in-class presentations (16th July) each group will pitch their start up to the class and I will decide which startup idea would get the hypothetical funding.

- Pitches should explain what the problem is and why they think it is relevant to a futuristic city. They then should explain how their idea would be a solution to it and clearly highlight how they intent to build their AI systems from both and AI and a hardware point of view.

- Good pitches will read and discuss a couple of key academic papers. Use Google (Google Scholar) to help find papers.

Group allocation