RWR 4013

Digital Twins for Smart Cities

Dr. Ahmad Mohammadi
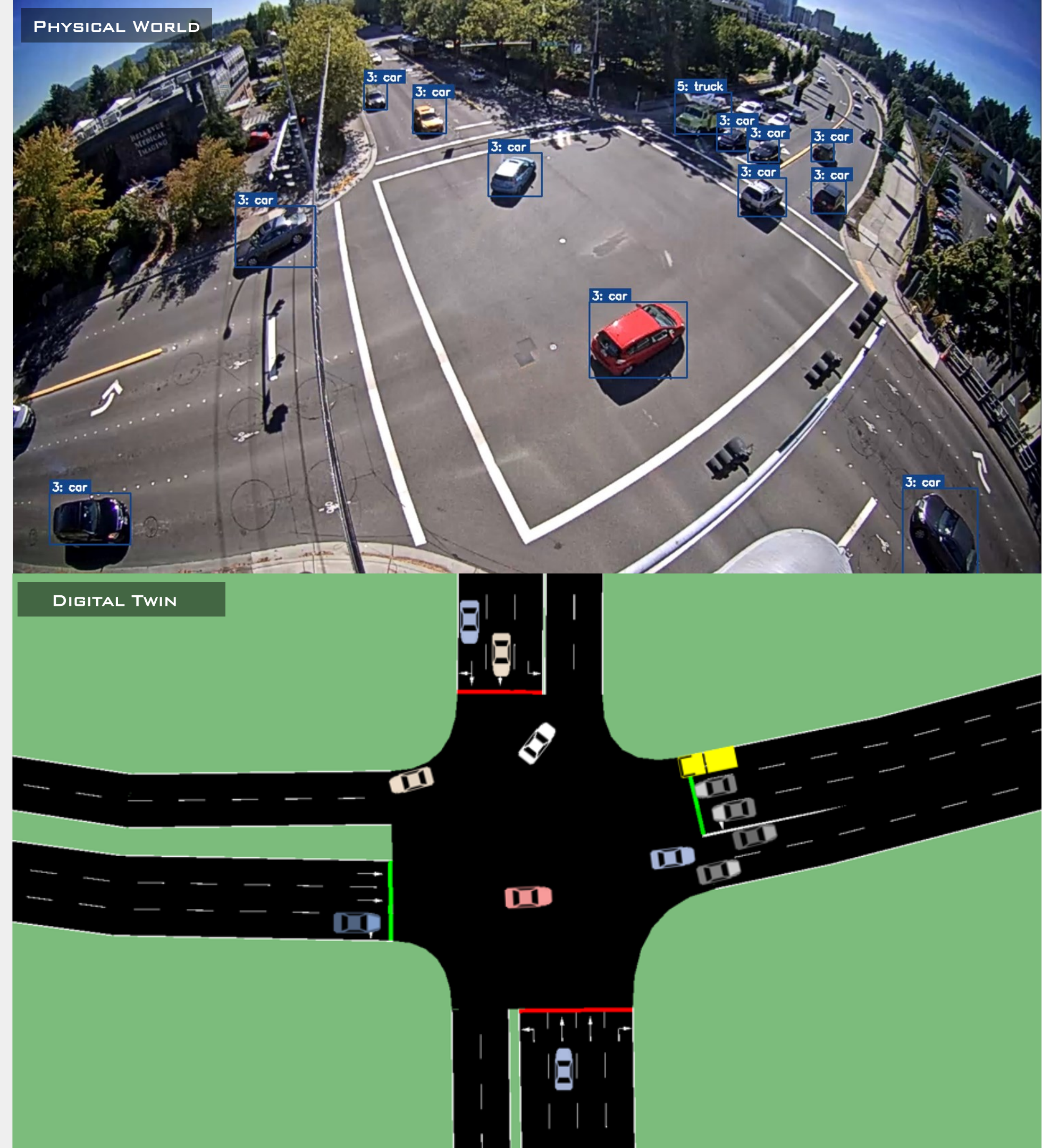
Week 10 | Session 2:
Decision
(Communication & Presentation I)
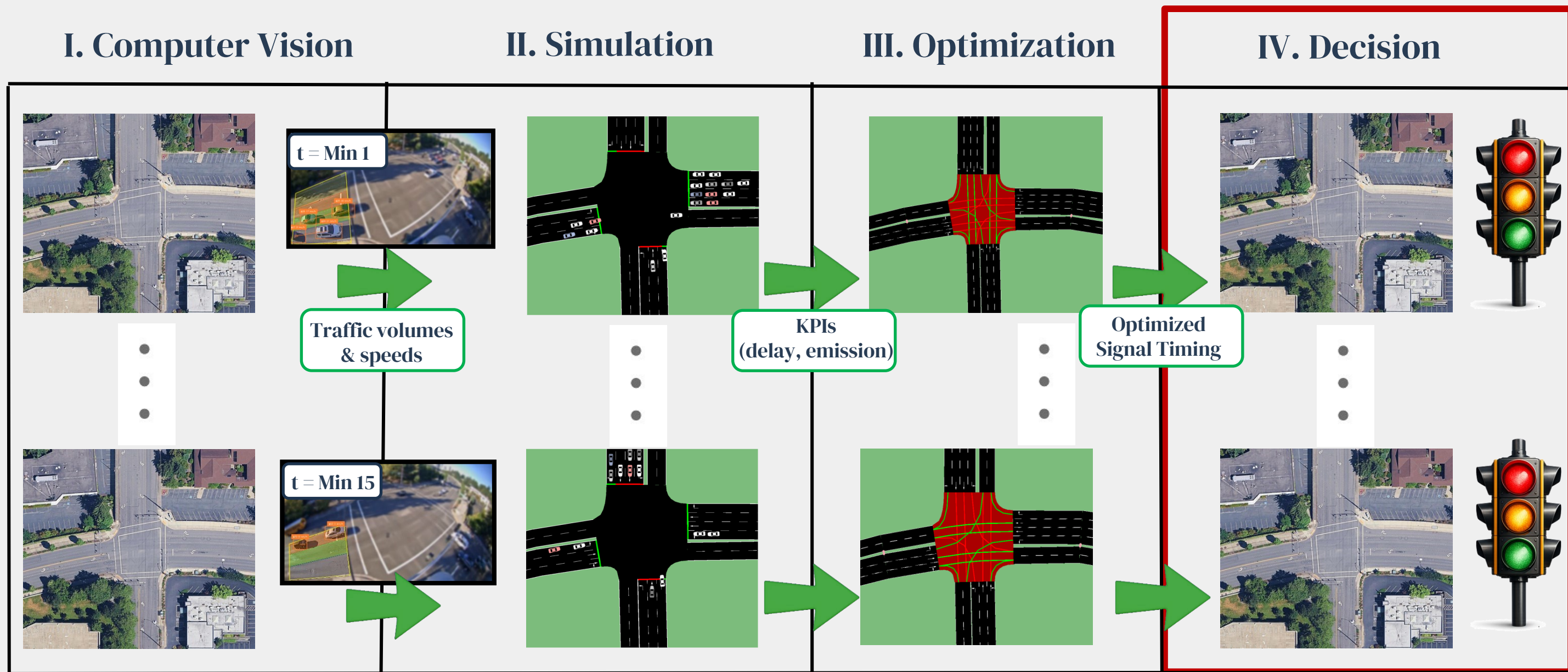
Fall 2026

RoadwayVR

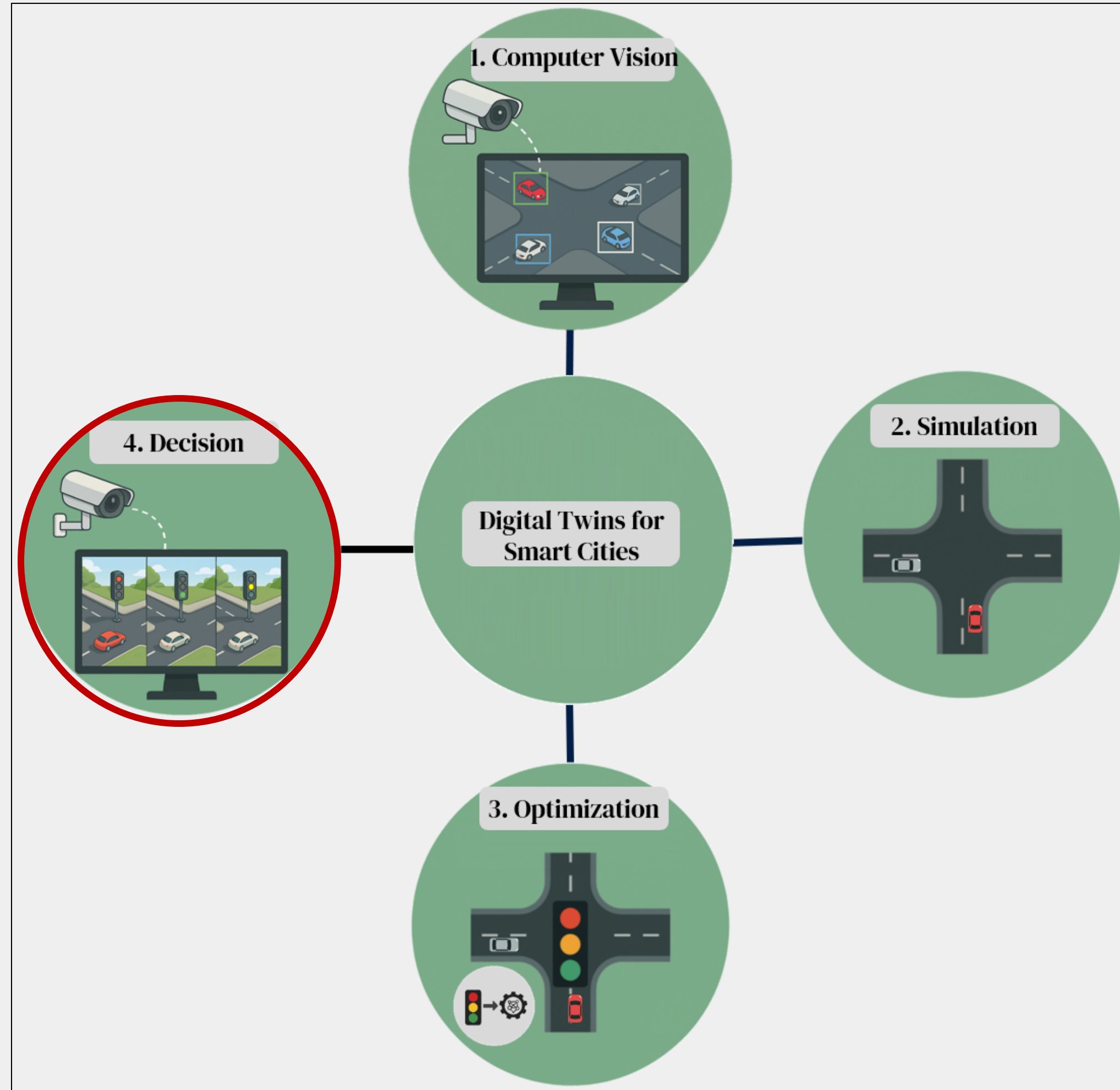roadwayvr.github.io/DigitalTwinsforSmartCities

Overview of Course Syllabus in One Shot

Agenda

Create a Professional Presentation

❏ **Video Demonstration**

Video Demonstration

Required Materials:
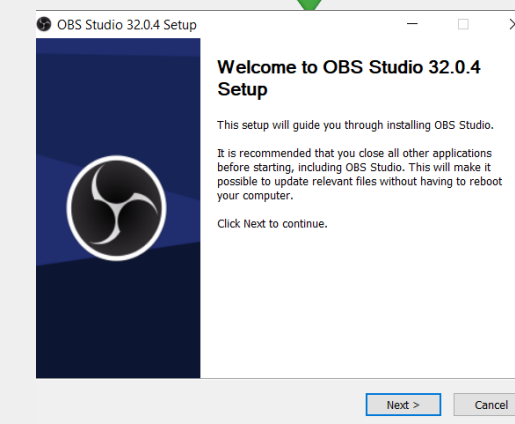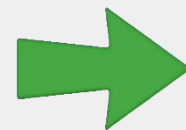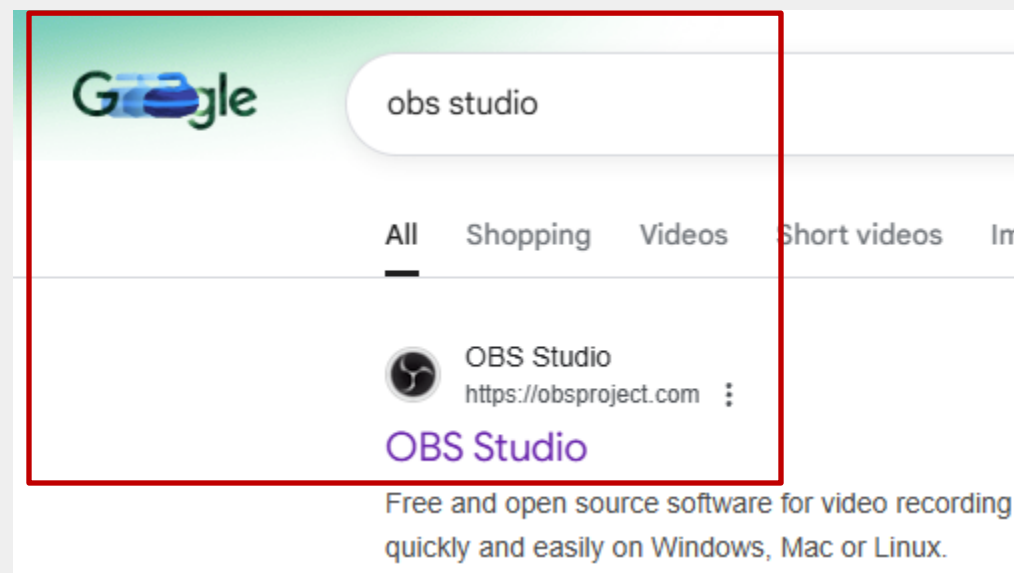
1. Video Recording Tool (OBS Studio)

2. Video Editing (Microsoft Clipchamp)

Capturing Screen from:

1. Computer Vision (The Video -5 Second)

2. Simulation (SUMO Environment – 5 Second)

3. Optimization (The Application – 5 Second)

4. Decision (Results – 5 Second)

Video Demonstration

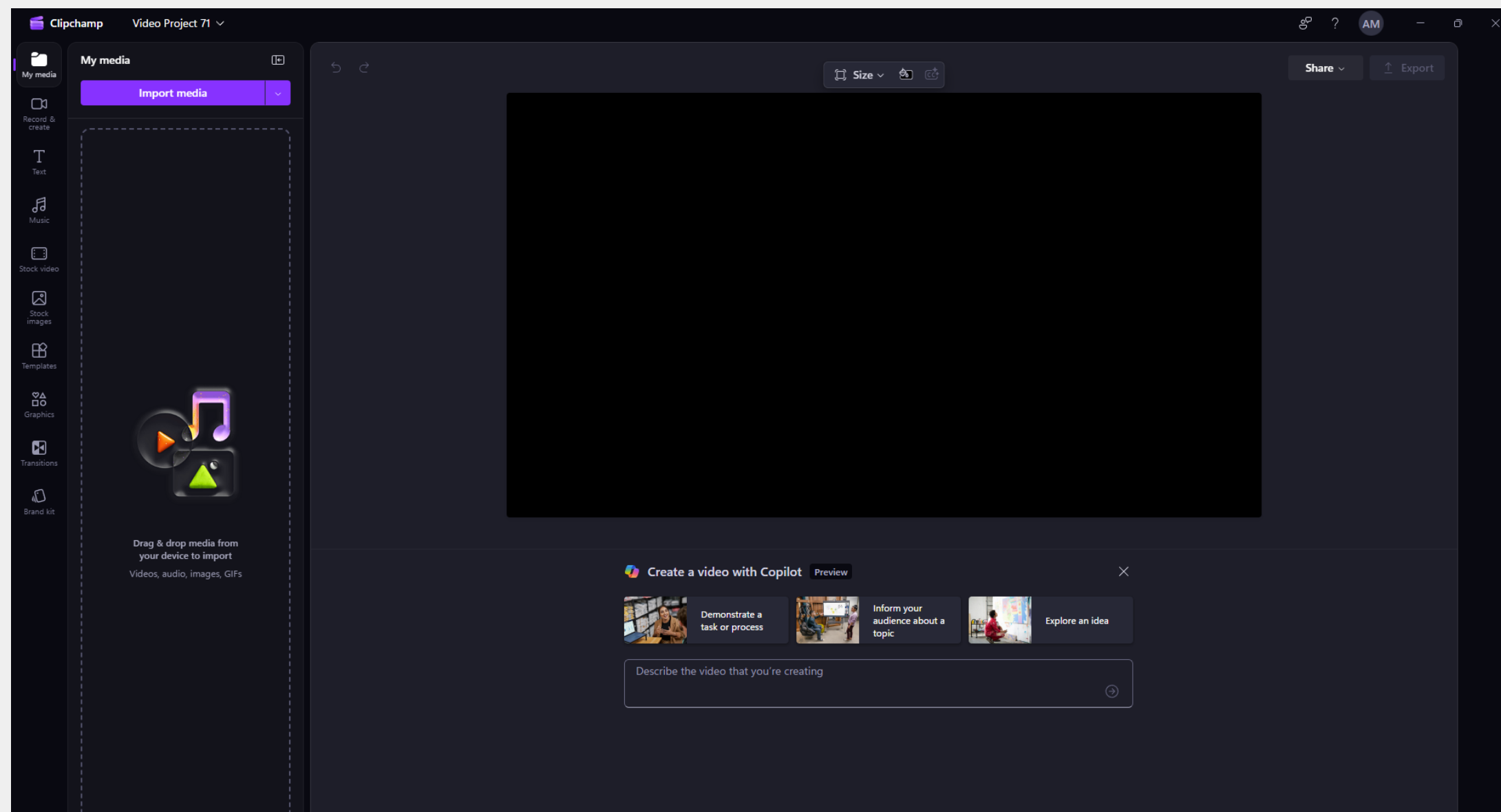❑ **Google → OBS Studio → Download OBS Studio**

❑ **Install OBS Studio**

Video Demonstration

❑ Open OBS Studio

❑ Select Start Recording

❑ It Records Screen

❑ Record 10 seconds of computer vision video

❑ Record 10 seconds from your running simulation

❑ Record 10 seconds from Simjam Application (e.g., optimization)

❑ Record 10 seconds from Results (Showing Charts in Powerpoint)

Video Demonstration
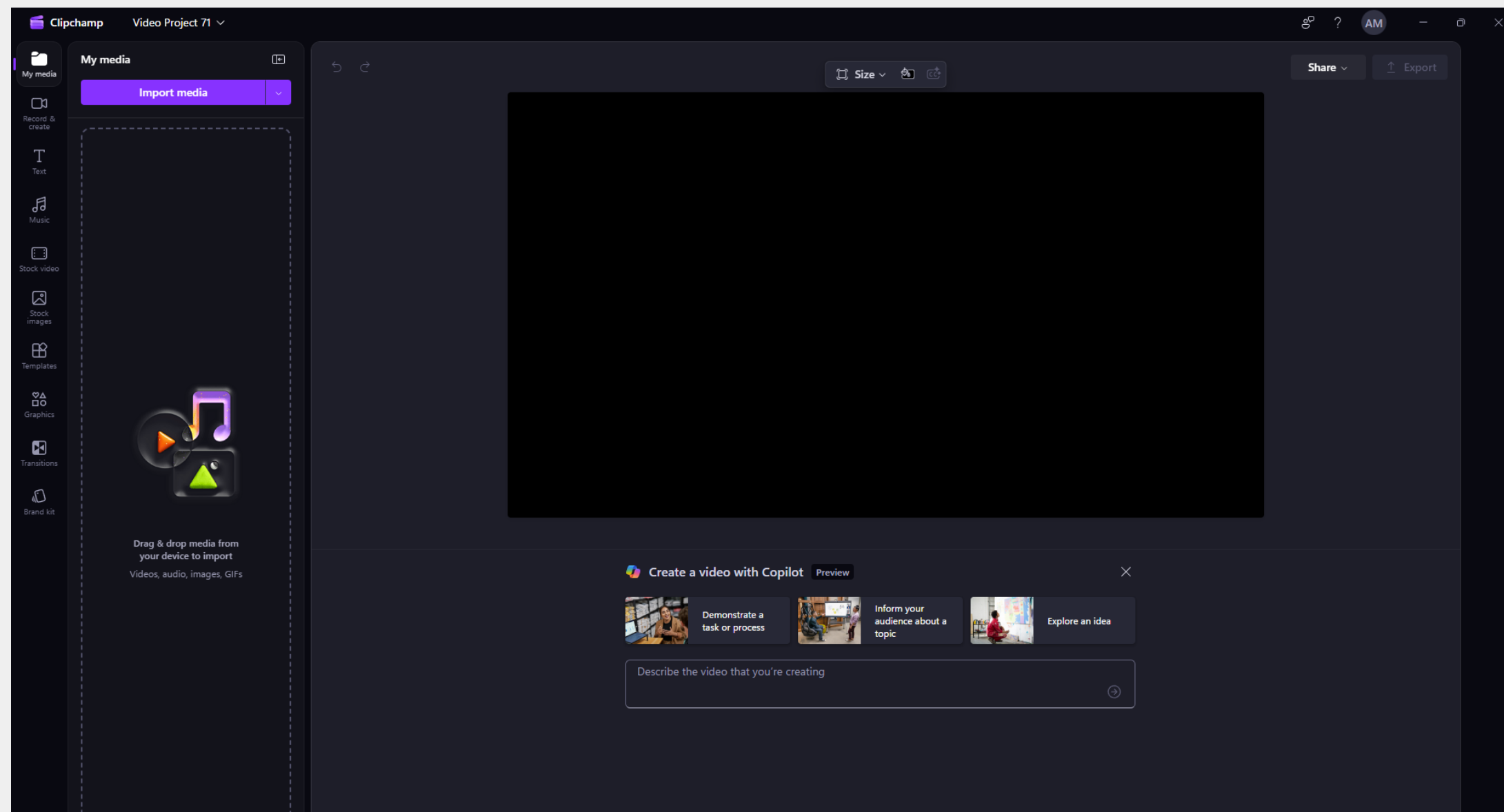
❑ **We need to remove redundant parts**

❑ **We need to add some texts**

❑ **Use Microsoft ClipChamp (its free in windows)**

Video Demonstration

❑ **Import Media (Four Video Clips)**

❑ **Drag and drop video clips into clipchamp**

❑ **Add texts on top of each video (firs video: Field Data Collection, Second Video: Digital Twin Third Video (Traffic Signal Optimization), Fourth Video (Results) → Export Video**
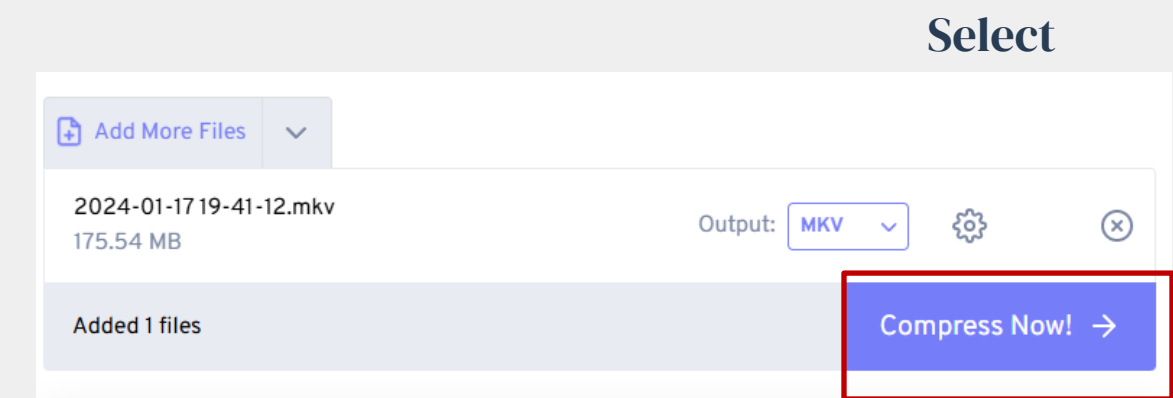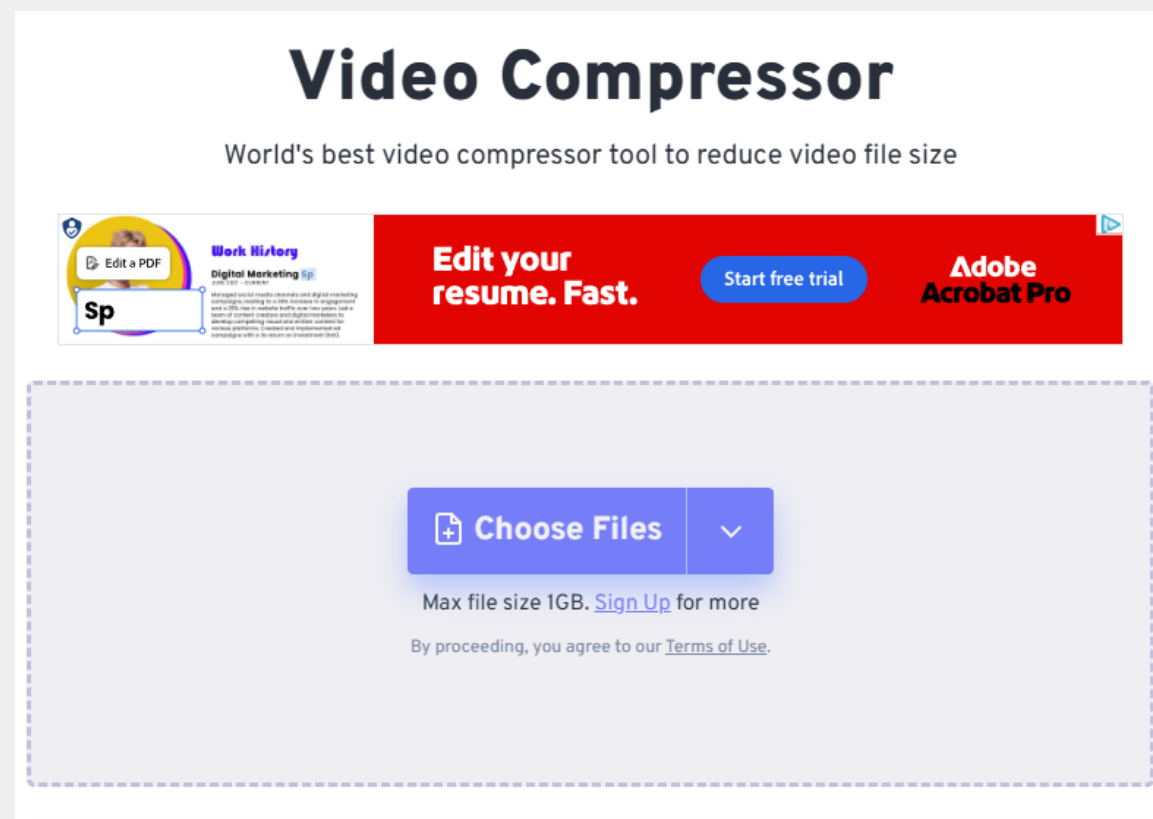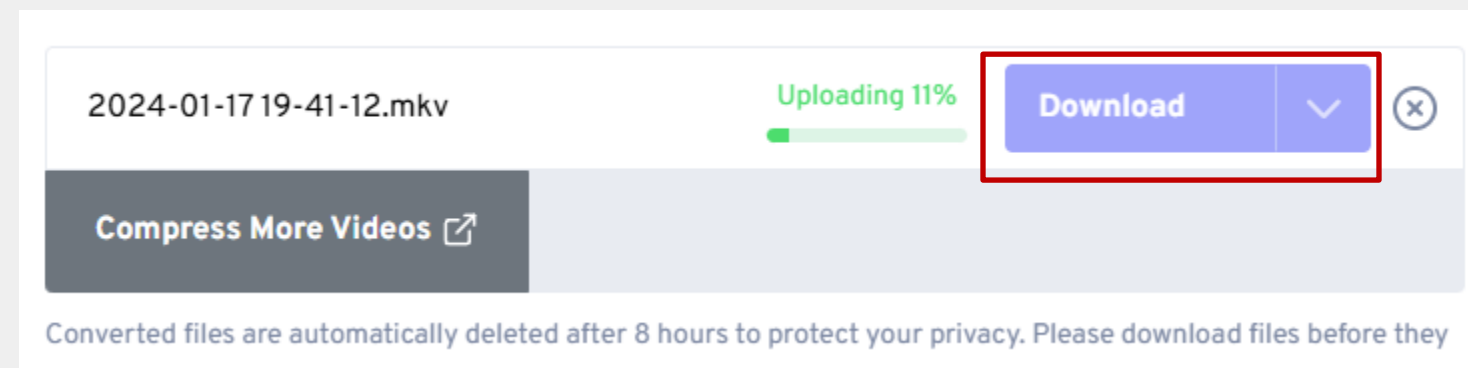
Video Demonstration

❑ **Reduce video file size to less than 10 MB**
❑ **You can use https://www.freeconvert.com/video-compressor**

Drag and Drop the video to

Select

Video Demonstration

❑ **Select Download Once its finished**

❑ **Check video size → Repeat the process until you get size less than 10 MB**

2024-01-17 19-41-12.mkv   Uploading 11%   Download ⌄   ⊗   Once its finished

Compress More Videos ⤢

Converted files are automatically deleted after 8 hours to protect your privacy. Please download files before they

Video Demonstration

❑ By the end of this tutorial, you would have result PowerPoint and video

❑ Next Week is how to write a formal technical report