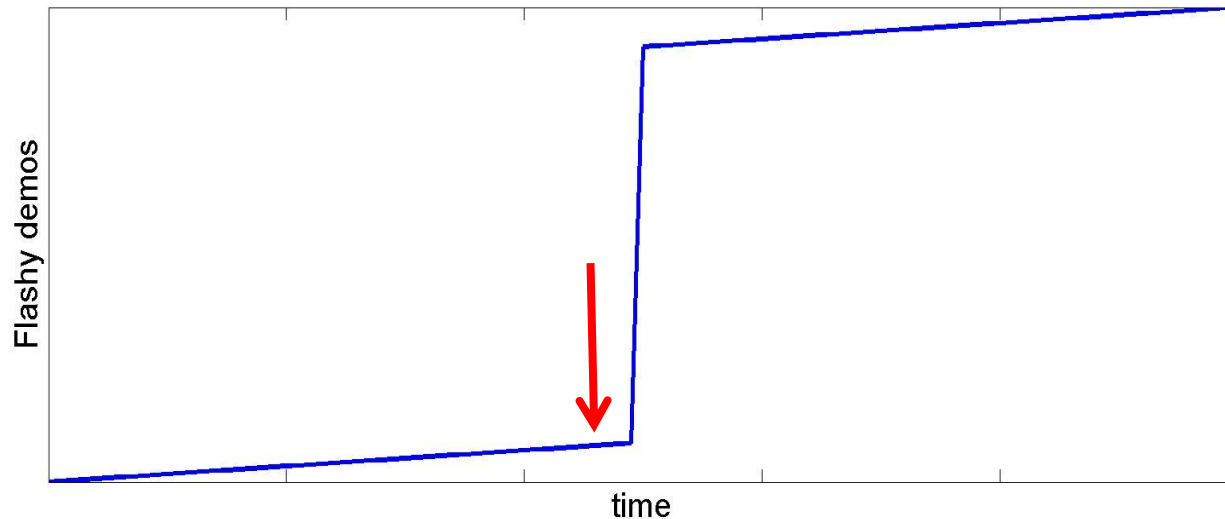
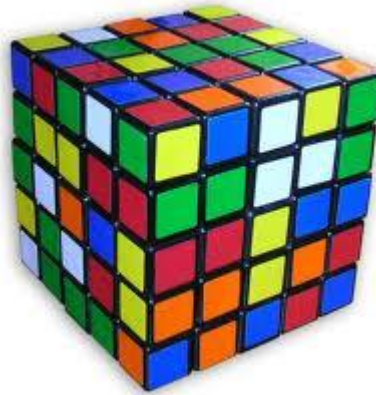




# Laugh when you're winning

Harry Griffin  
for the  
ILHAIRE Consortium

# Midterm presentation

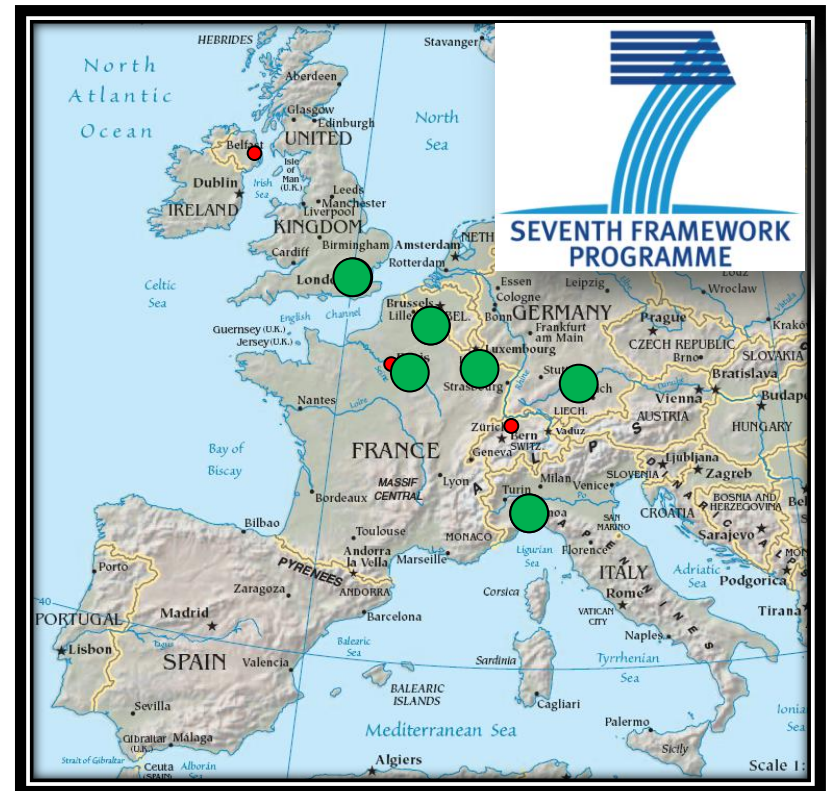


# LWYW objectives

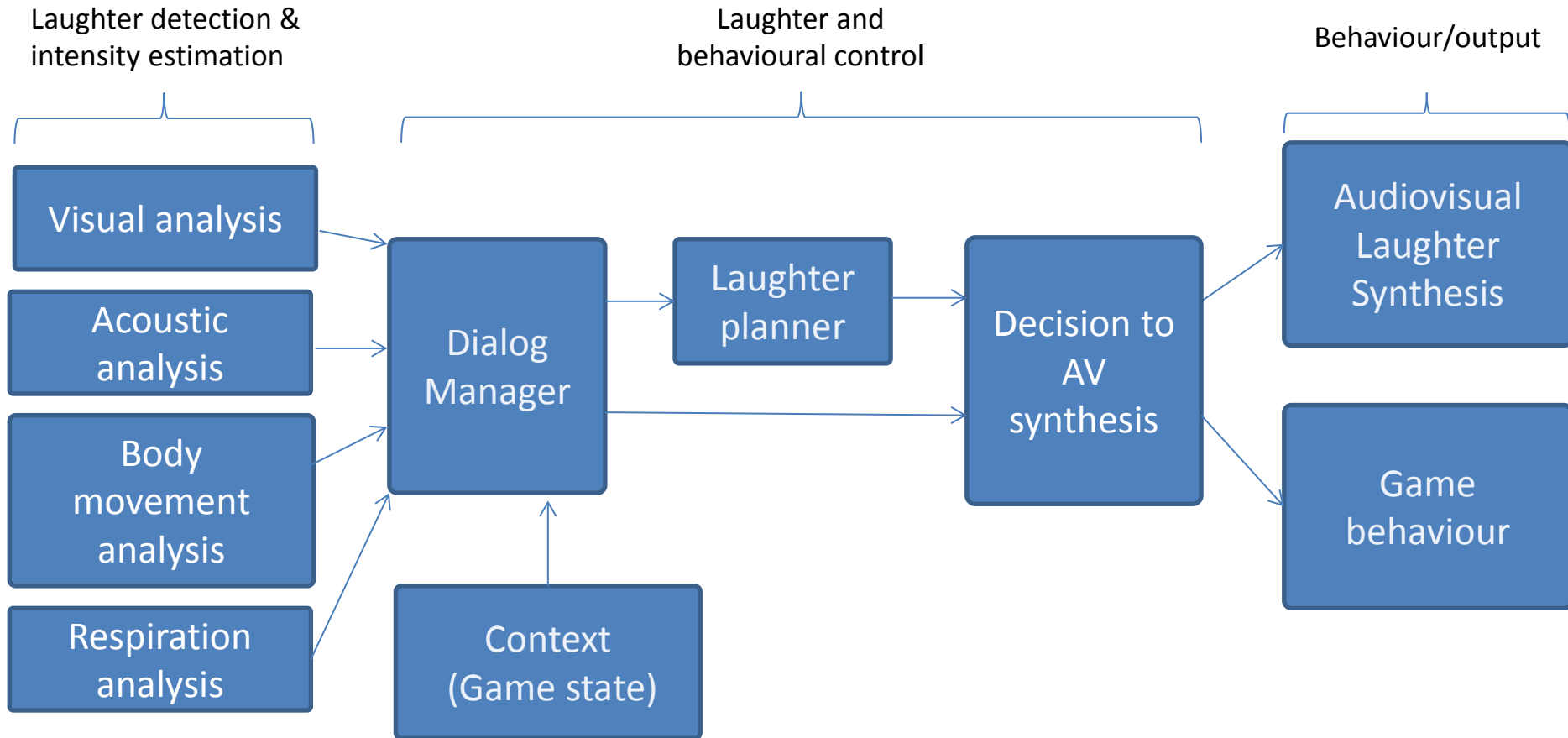
- Build an agent/system that can
  - Play a convincing part in simple games
  - Laugh naturally during game interactions
- Integrate new developments from ILHAIRE consortium from last 12 months

# LWYW initial tasks

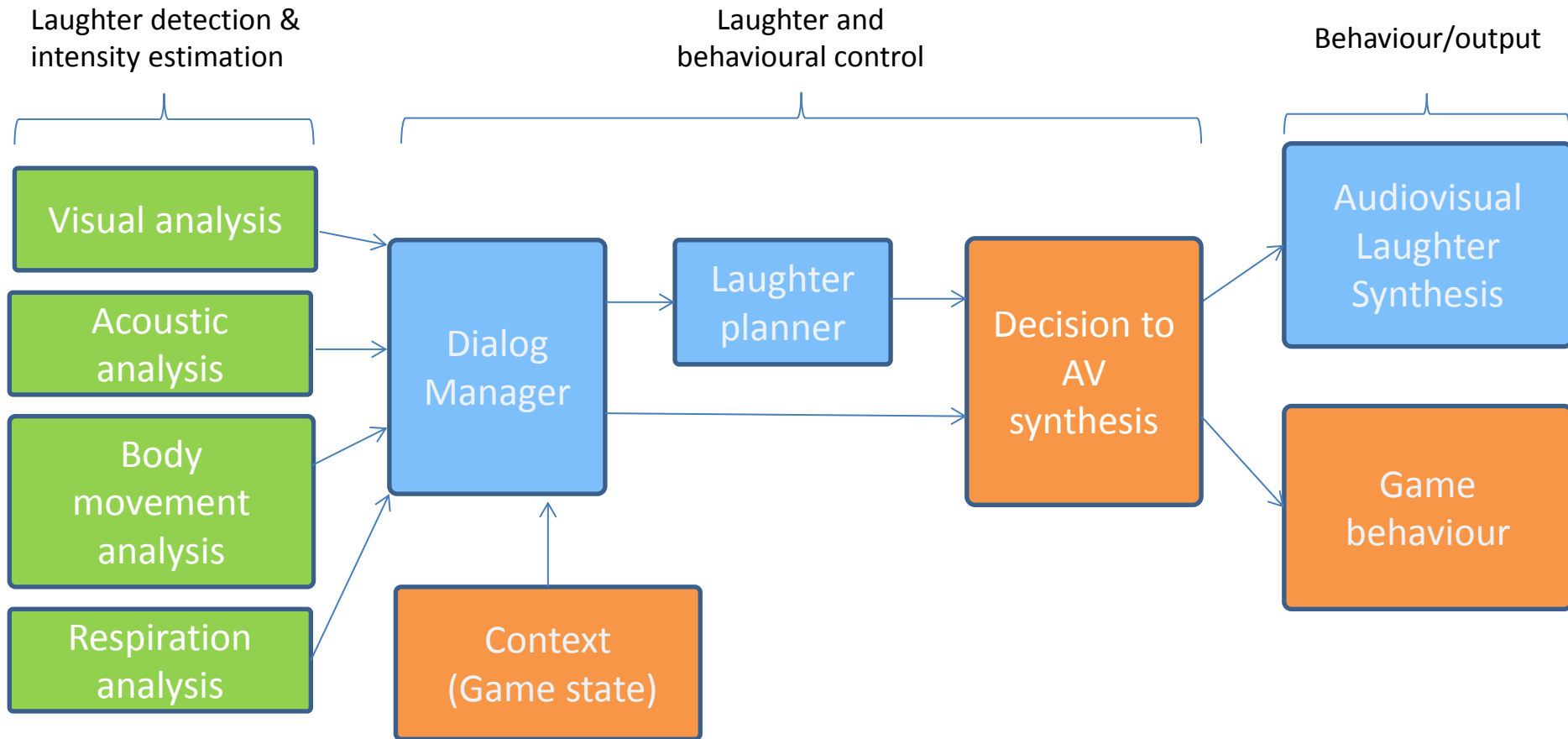
- Integrate existing modules for laughter detection, control and synthesis
- Develop game playing capabilities of avatar
- Yes/no game



# System architecture - plan

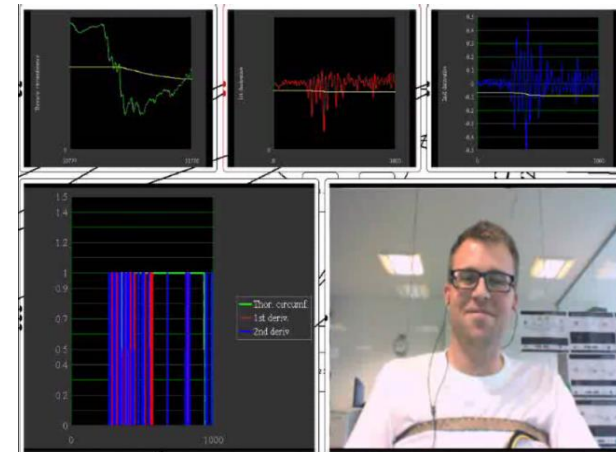


# System architecture - integration



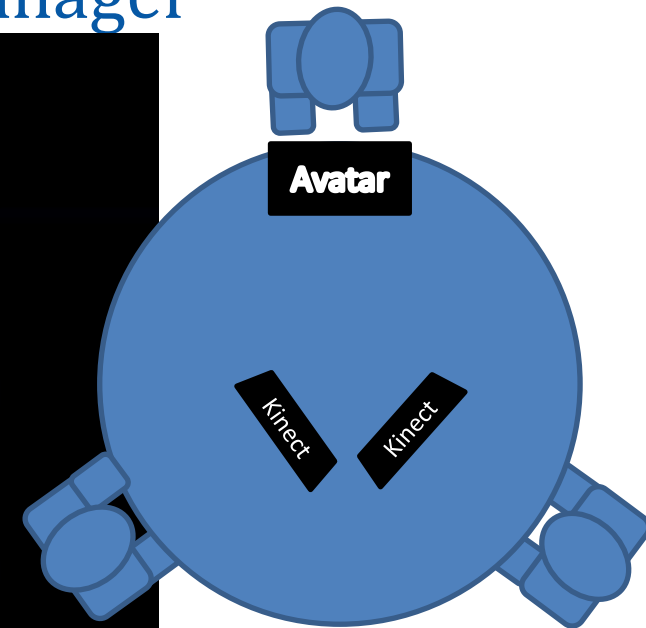
# Multimodal laughter detection and intensity analysis

- Audio detection – ok within hardware constraints
- Smile detection (Kinect) – ok
- Body movement and respiration analysis – ok, fusion with other modalities yet to be finalised



# Setup and scenario

- System and sensors integrated to test scenario
- Also for training data for dialog manager





# Audiovisual laughter synthesis

- Phoneme-driven synthesis of facial movements e.g., lips, and some body movements
- Partially integrated into GRETA, Living Actor implementation in the next week
- Laughter planner to control decisions according to context e.g., ongoing speech

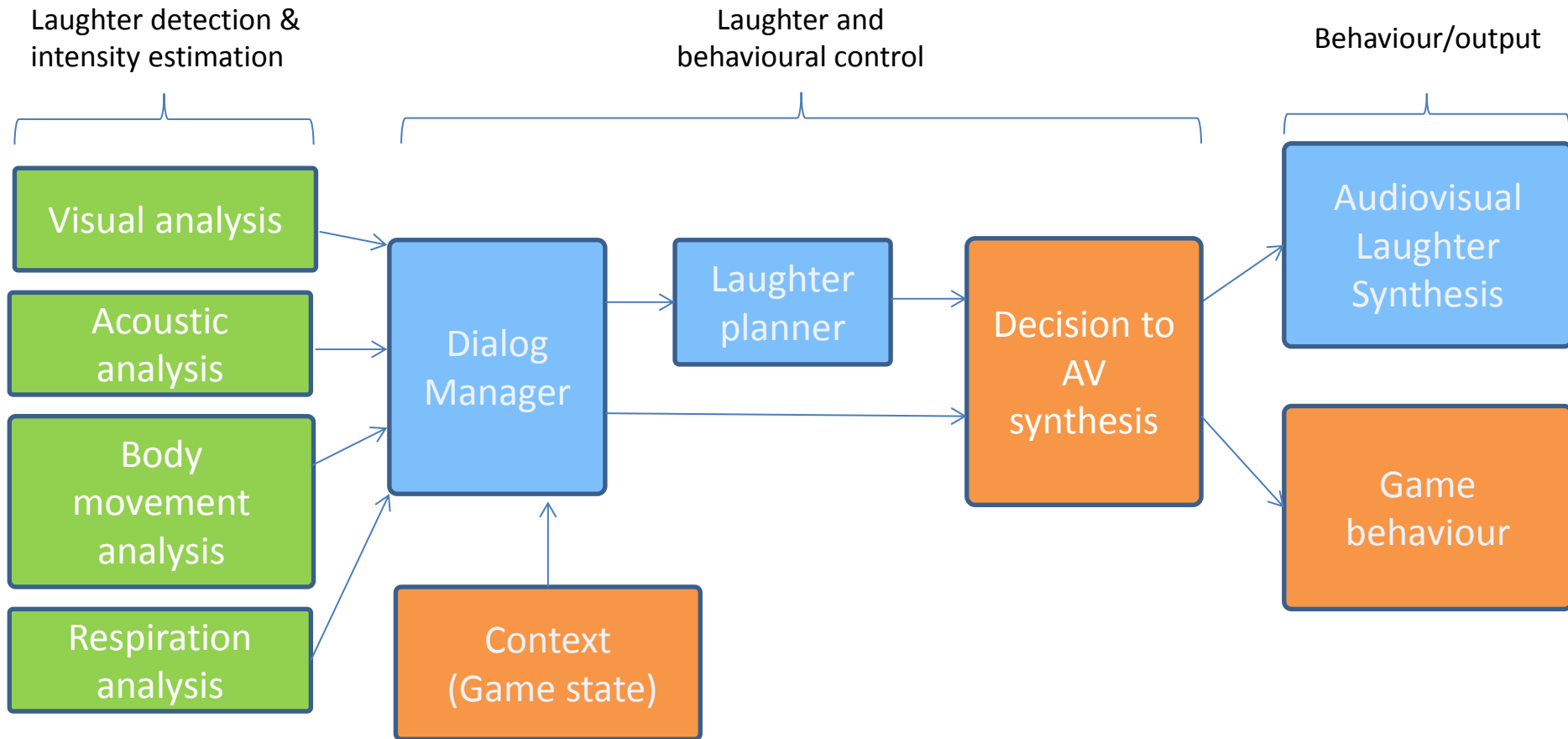


# Game behaviour

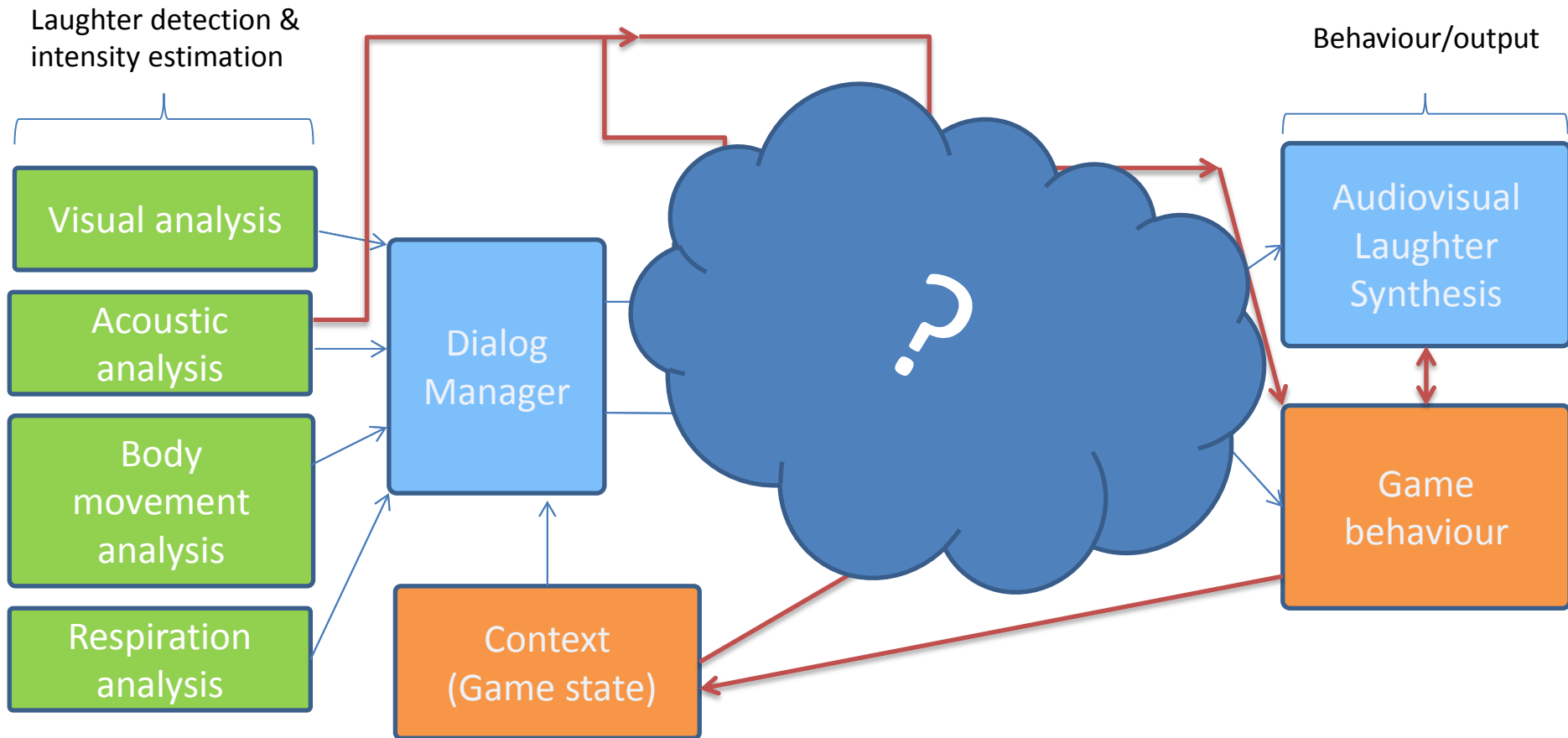
- No dedicated game control module yet
- Behavioural rules require several decisions on present and past states, even in a simple game



# System architecture - integration



# System architecture - integration

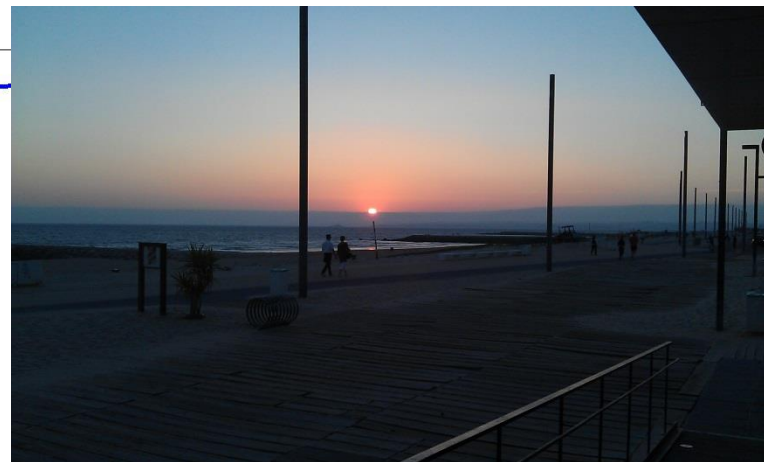


# LWYW remaining tasks

- Implementing game logic and behaviour
- Evaluation



# Thank you



time

