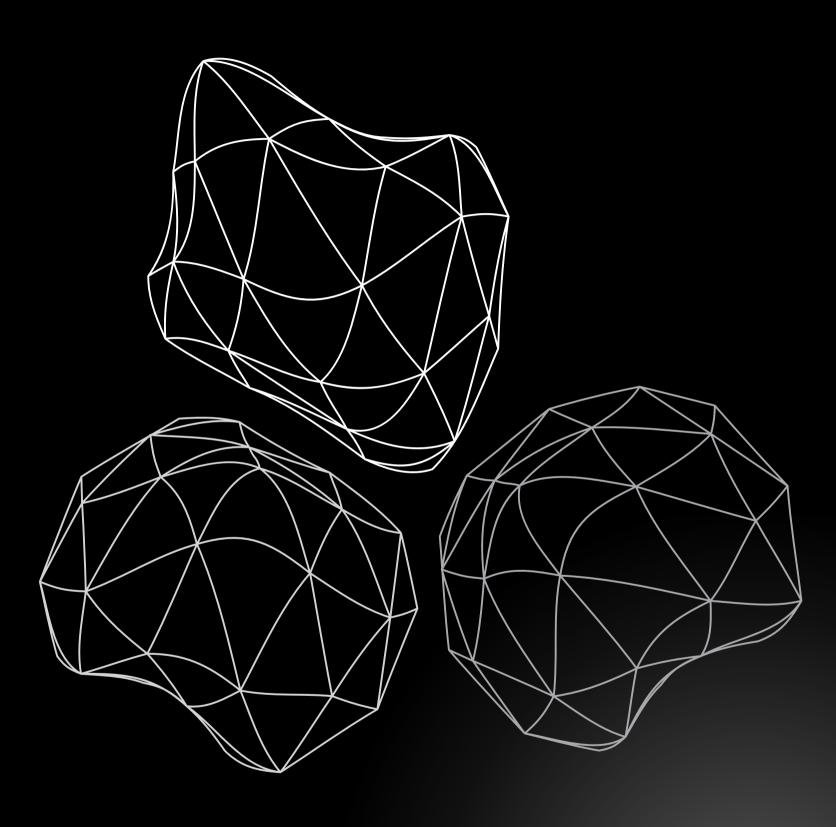


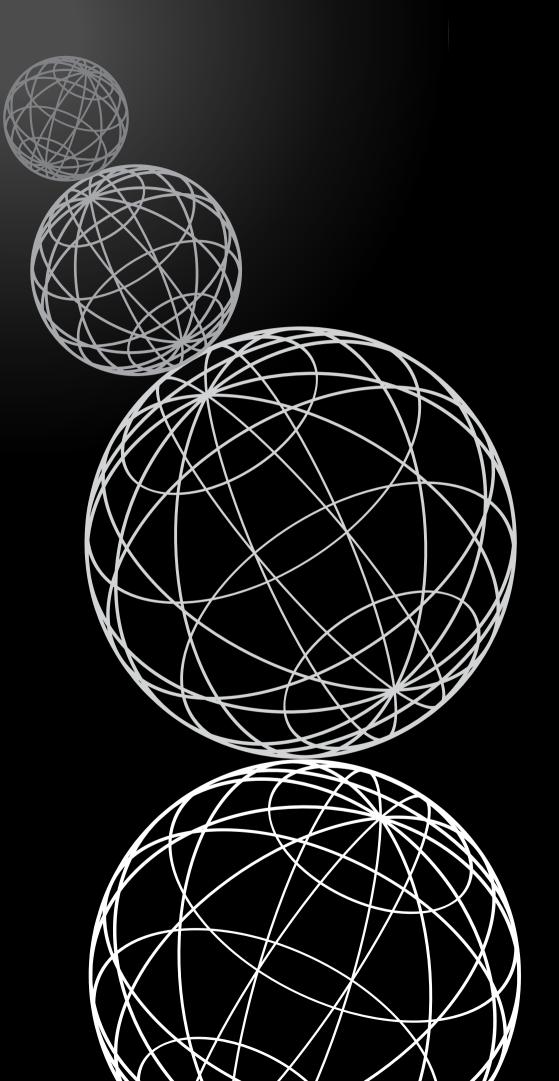
RECENITION A PHASE

COLLABORATIVE PROJECT
BETWEEN TALLINN
ONIVERSITY AND OPSIS

PROJECT TERMS AND GOALS

- Collaborative effort between Tallinn University and Opsis (Singaporean startup).
- Primary focus: Elderly care patients and their caretakers.
- Main goals:
 - Assess Estonia's readiness for Al-based social service solutions.
 - Train students to use Opsis AI for facial emotion analysis.
- Adjustments due to ethics rejection:
 - Shifted focus to interviews with specialists.





PROBLEM IMPORTANCE AND METHODS

Challenges in elderly care:

- Prevalence of depression, anxiety, and stress among the elderly.
- Traditional methods are subjective, time-consuming, and error-prone.

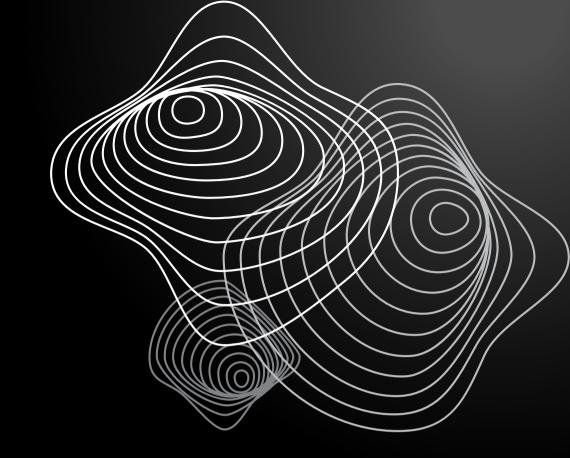
AI-ER Technology:

- Provides real-time emotional monitoring.
- Builds on global advances in AI applications (e.g., Singapore, Japan).

Methods:

- Literature review and synthesis.
- Technology Acceptance Model (TAM) for usability evaluation.

EVIDENCE-BASED PROJECT OVERVIEW



Goals:

- Explore Facial Emotion Recognition (FER) applications in Estonia.
- Enhance mental health assessments.

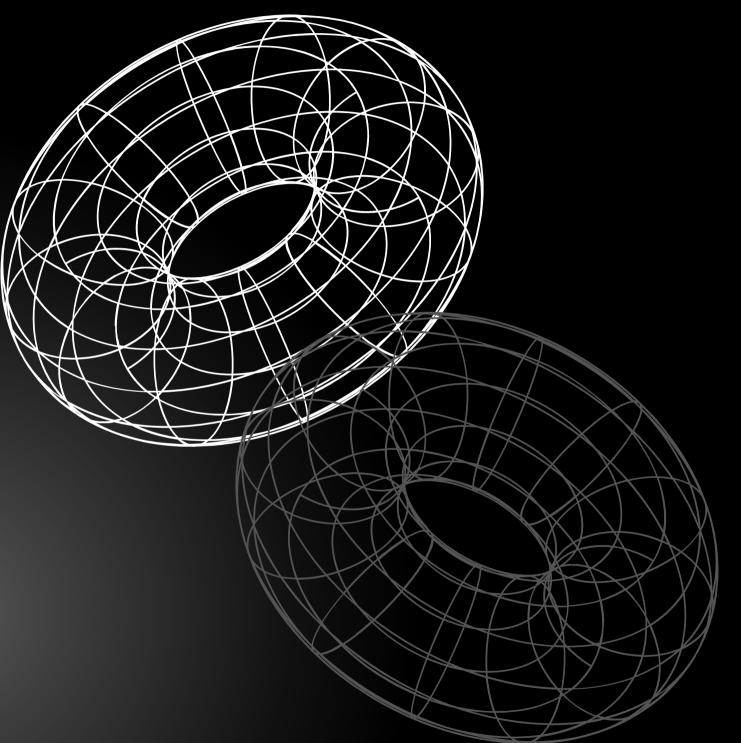
Team contributions:

- Team 1: Reviewed global AI-FER research.
- Team 2: Engaged stakeholders and handled ethics procedures.

Key challenges addressed:

- Privacy and ethical concerns.
- Bias and integration fears.

ACTIVITY AND STAKEHOLDER ENGAGEMENT

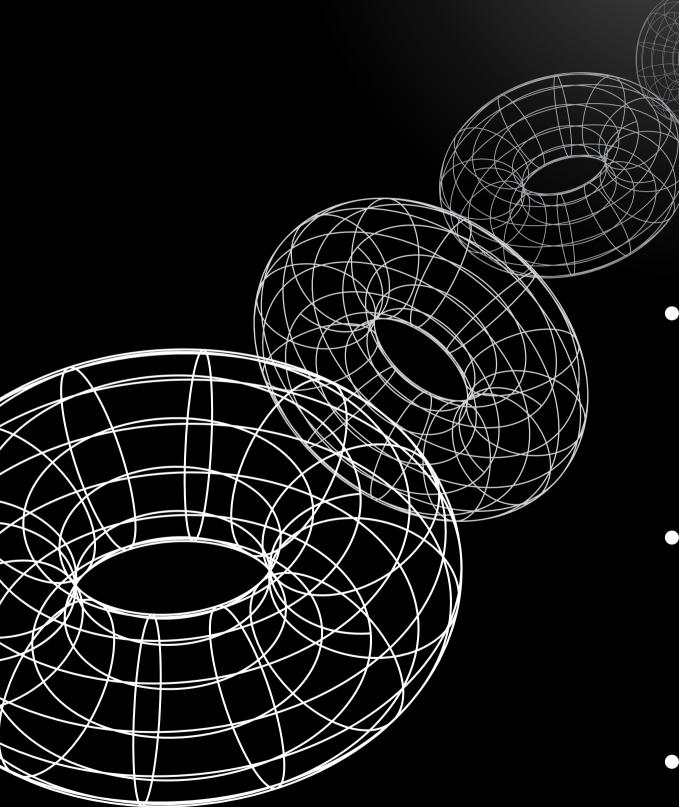


Direct stakeholders:

• Elderly individuals, caregivers, medical personnel, and families.

Indirect stakeholders:

- Al developers, healthcare institutions, and society.
- Future Activities:
- Testing FER in real-world settings.
- Training caregivers and gathering feedback.



OPSIS AI SUSTAINABILITY

• Long-term vision:

- Regular training for caregivers.
- Ongoing technical support.

Management:

 Estonian Ministry of Social Affairs and elderly care houses.

Collaboration:

 Academic institutions and stakeholders for continuous improvement.

PROJECT ACTION PLAN SUMMARY

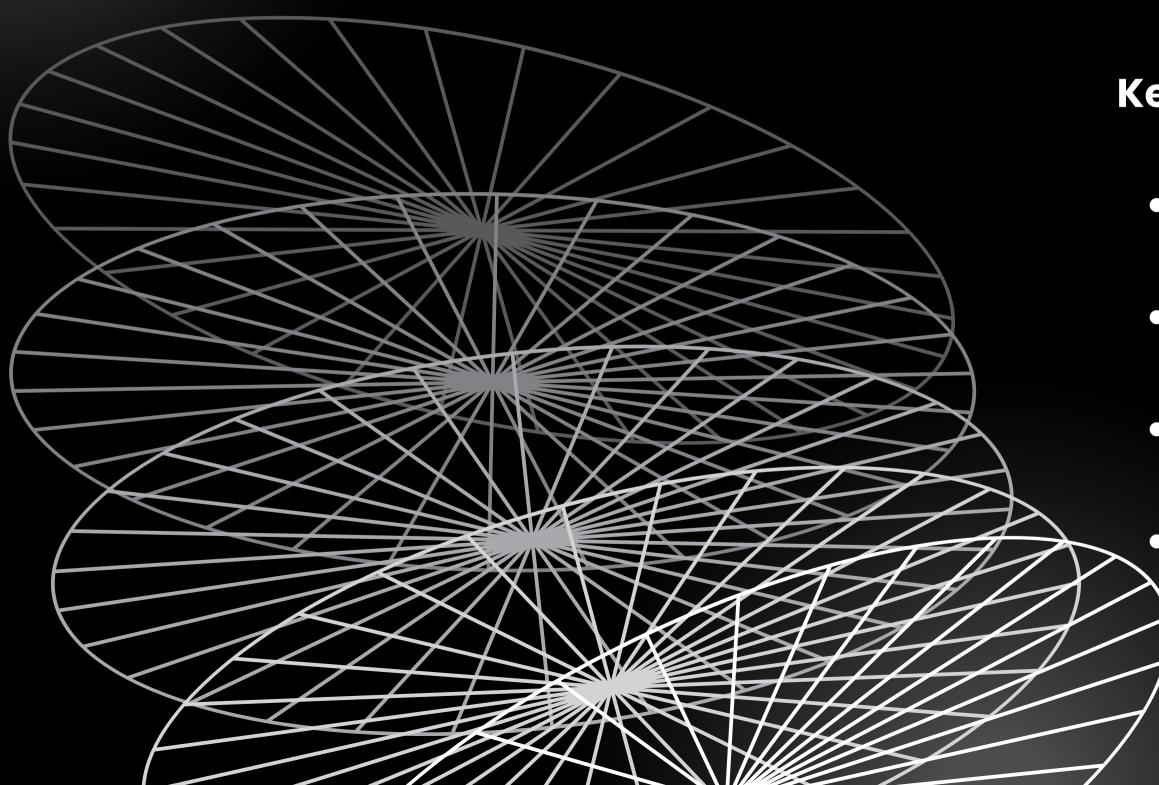
Click here for a full action plan

- **September** project setup, assigning roles, starting with literature reviews, creating a strategy to contact ethics committee and ministry.
- **October** submitted ethics committee document, translating documents into Estonian and Russian, creating voting polls for group members, participating in mid-term feedback session.
- **November** submitted letter for the ministry, preparing for the interviews.
- December- interviewing the stakeholders, creating LIFE portfolio.
- January- submitting self-reflective reports, presenting LIFE portfolio.

RESULTS AND ANNEXES

Key Achievements:

- Ethics approval and support letter from the Ministry of Social Affairs.
- Multilingual DASS21 questionnaire (Estonian, English, Russian).
- Literature review: Insights on AI in healthcare.
 - Interviews: First-hand feedback from healthcare workers.



COMMUNICATION TO STAKEHOLDERS

- Ministry of Social Affairs: Approved the project with a support letter emphasizing its importance for social care challenges.
- Participant Engagement: Ensured transparency through consent and clear communication of goals.
- Linguistic Skills: Used multilingual abilities for translations and international collaboration.
- Legal Report: Addressed EU and Estonian regulations for compliance and security.
- **Team 1**: Analyzed 5 articles and sourced 5 more per participant to support project development.
- **Team 2**: Prepared ethics application and collaborated with service providers for technology integration.

THANK YOU

FOR YOUR ATTENTION!