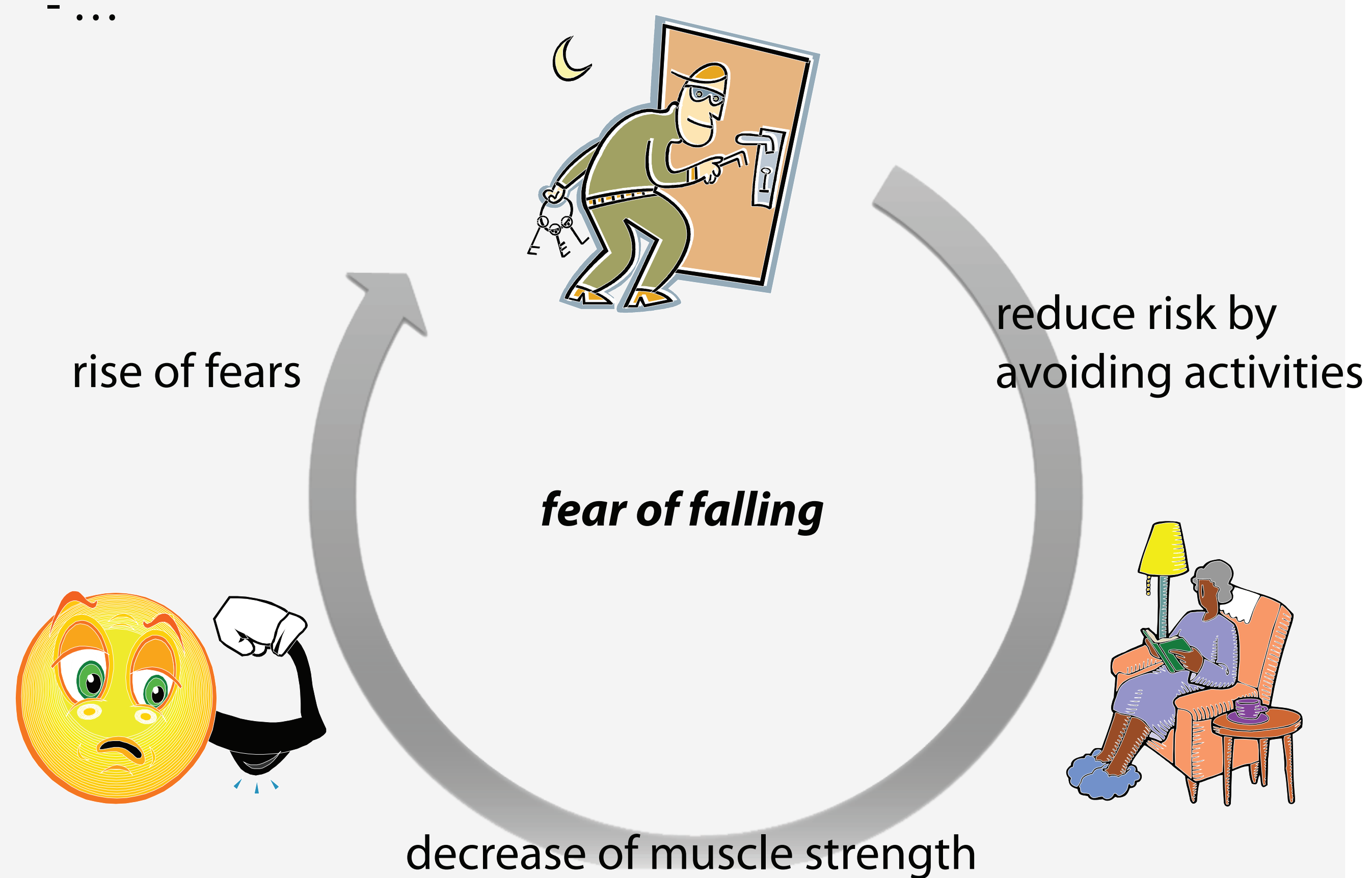


Motivation

- Elderly usually have a lot of fears
 - Getting bad diseases
 - Criminal violence
 - Financial crisis
 - Fear of falling
 - ...



Project Facts

- FEARLESS: **F**ear **E**limination **A**s **R**esolution for **L**oosing **E**lderly's **S**ubstantial **S**orrows

- Goal:
 - to detect a wide range of risks with a single sensor unit,
 - enhancing mobility and enabling elderly to take active part in the self-serve society by
 - reducing their fears,
 - providing safety and
 - reducing consequences of incidents

- Duration: 07/2011 – 06/2014

- Budget: ~ 2.7 M€

- Project Coordinator: CogVis GmbH



Consortium



CogVis GmbH
(AT)



Vienna University of
Technology (AT)



Linkcare Health Services
(ES)



TeSAN
(IT)



University of Bamberg
(DE)



Fraunhofer IPK
(DE)



Infokom GmbH
(DE)



i2CAT Technological
Center (ES)



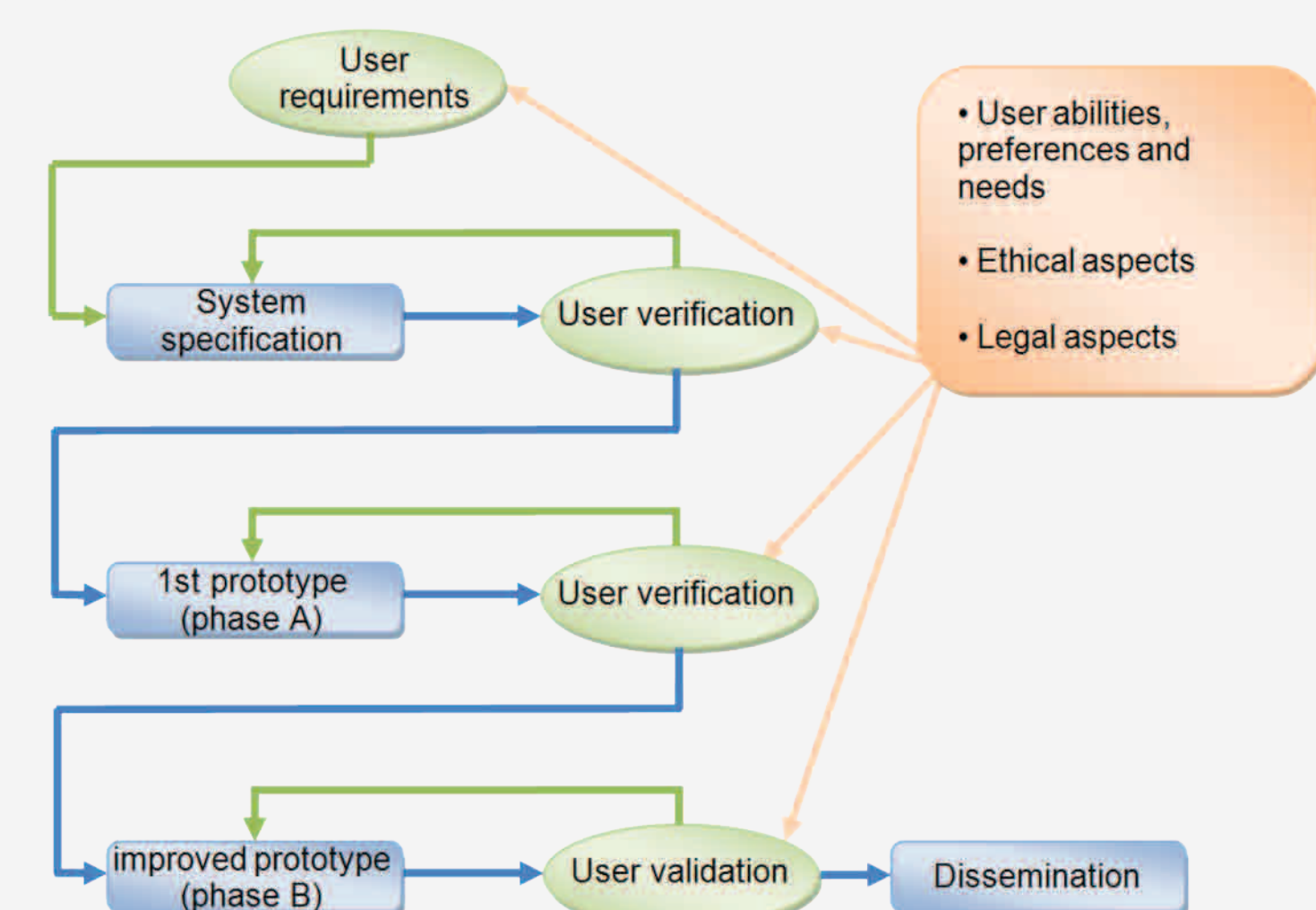
Medical University of
Vienna (AT)



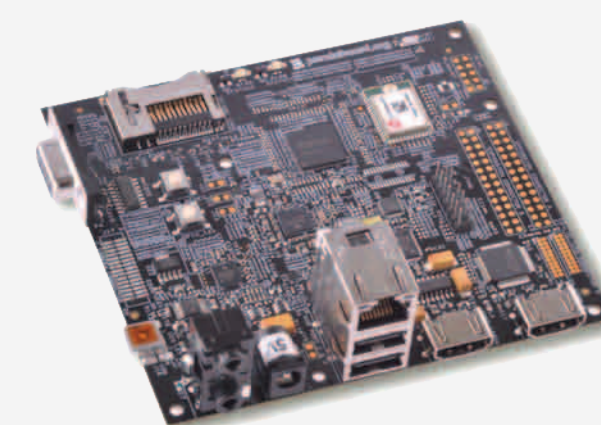
Samariterbund
Vienna (AT)

End User Integration

- End user integration is essential



- Privacy needs to be considered
 - Needs to be protected
 - No camera picture available at any time
 - Single sensor unit vs. Microsoft Kinect



Conclusion

- Autonomous system to detect falls (and other risks) is needed
- Computer vision system does not require sensors to be worn
- Combination with audio enhances robustness
- New problems arise (e.g. privacy, occlusions,...)

Granted by

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