

Experience of the strategy of sustainable cooperation between universities and the IT industry

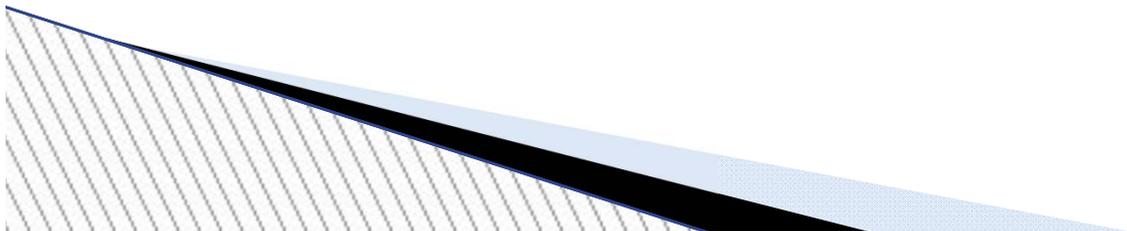
Past, present and future cooperations



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Outline

- ▶ Successful cooperations with high number of German universities
- ▶ R&D start-up school
- ▶ Outlook



Our German partner universities



Hochschule Augsburg
University of Applied Sciences

FH E **FACHHOCHSCHULE**
ERFURT UNIVERSITY
OF APPLIED SCIENCES



Universität Regensburg



**Hochschule für Technik
und Wirtschaft Berlin**

University of Applied Sciences

Successful cooperation projects



- ▶ ONPU together with Augsburg University of Applied Sciences
 - Short-term student projects in Odessa and Augsburg
 - Joint conferences (e. g. MIT and IKT in Odessa)
 - Joint summer schools
 - Information – transparency – democracy 2015 (ONPU and HS Augsburg)
 - Neuro/Roborace 2017, 2018 (ONPU, HTW Berlin, HS Augsburg)
 - Machine Learning 2019 (ONPU, HTW Berlin, HS Augsburg)
 - Joint double-degree study programme in computer science (HTW Berlin and HS Augsburg)
 - Joint PhD research
 - Currently two candidates (HS Augsburg)
 - Ukrainian/German language courses in Odessa and Augsburg (HS Augsburg)



Cooperation impressions



SUMMER SCHOOL '18

12/09/18 – 22/09/18
SummerSchool'18
Odessa National Polytechnical University

WED/12/09/18 ARRIVAL	MON/17/09/18 WORKSHOP – CONTROL AND SENSOR FUSION
THU/13/09/18 PRESENTATION OF THE RESULTS	TUE/18/09/18 100th Anniversary of the Odessa National Polytechnical University
FRI/14/09/18 PREPARATION FOR THE RACE	WED/19/09/18 HACKATHON
SAT/15/09/18 ROBORACE COMPETITION	THU/20/09/18 GROUP EXCHANGE
SUN/16/09/18 EXCURSION	FRI/21/09/18 CLOSURE OF THE EVENT
	SAT/22/09/18 RETURN VOYAGE

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PATRICK.BAUMANN@HTW-BERLIN.DE
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ONPU ODESSA:
tim4bord@gmail.com

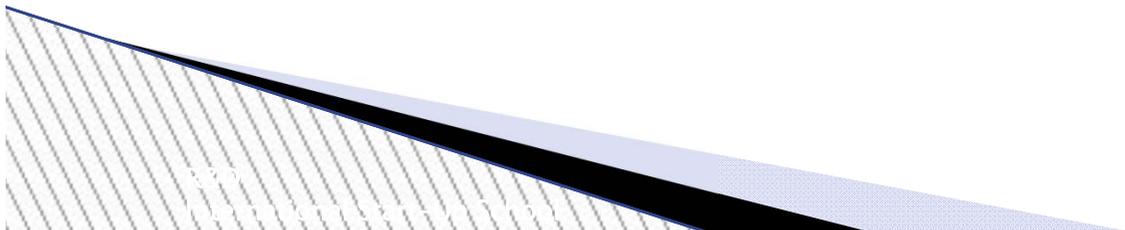
ROBO RACE
NeuroRace



R&D start-up school – Details

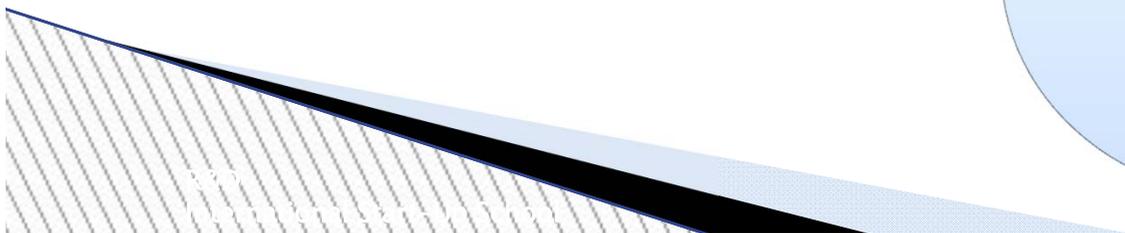
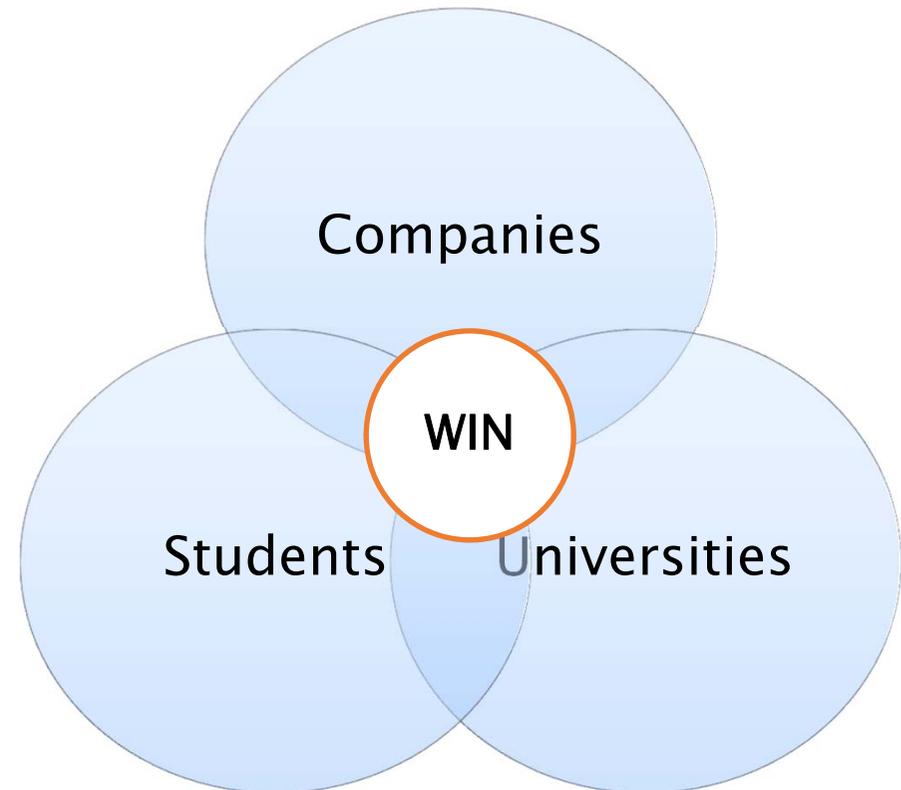
A Ukrainian–German initiative that aims to:

- ▶ Cultivate professional competency in its students
- ▶ Provide hands–on experience through industry projects
- ▶ Work with companies to prepare employees familiar with their field

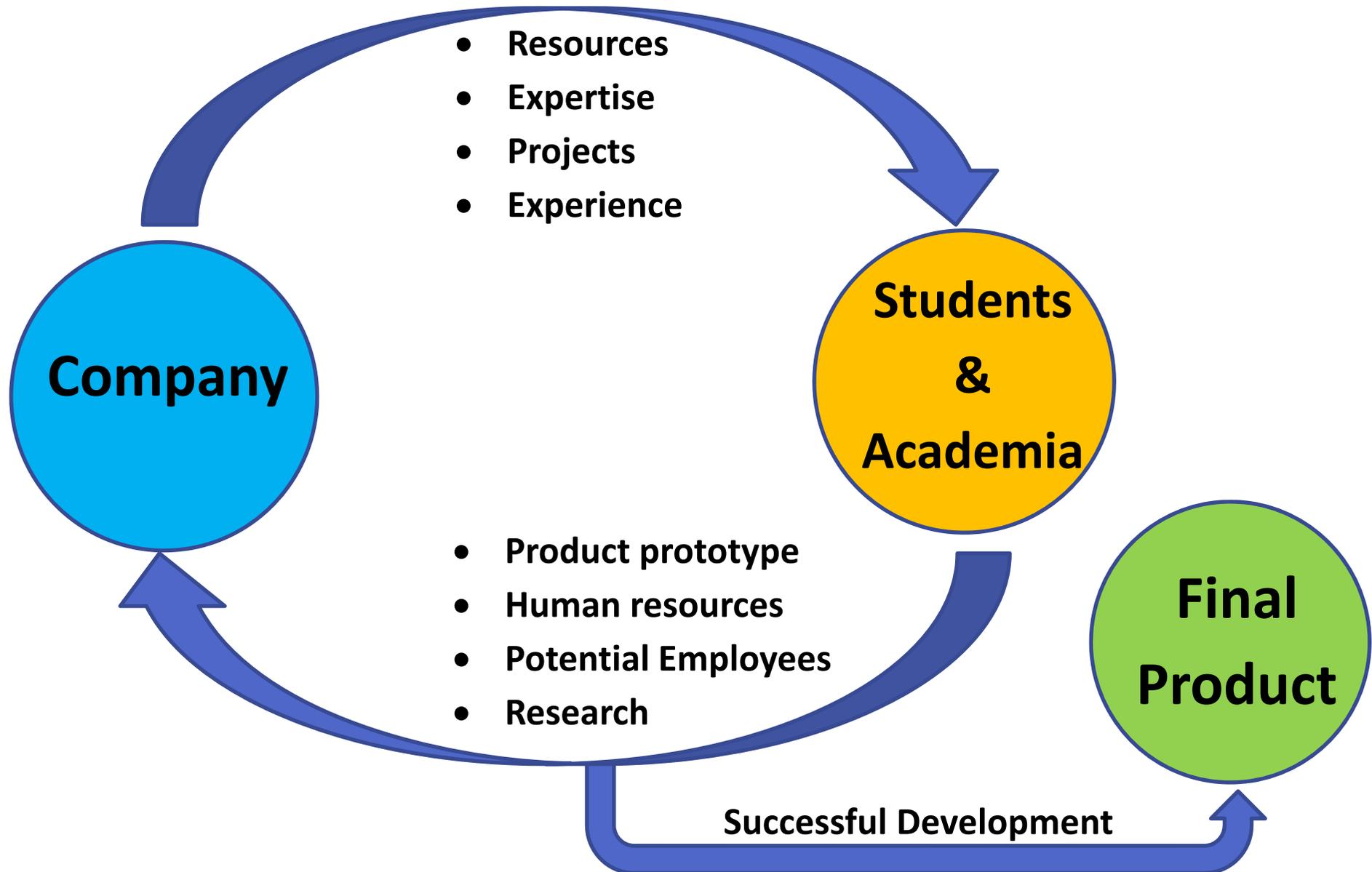


The WiN- WiN- WiN (3 WiN) Strategy

To make this initiative vital and sustainable, we aimed to implement a system of relationships that could provide a Win-Win-Win situation for each of the participants - Universities, students and companies



Industry Cooperation Eco-system



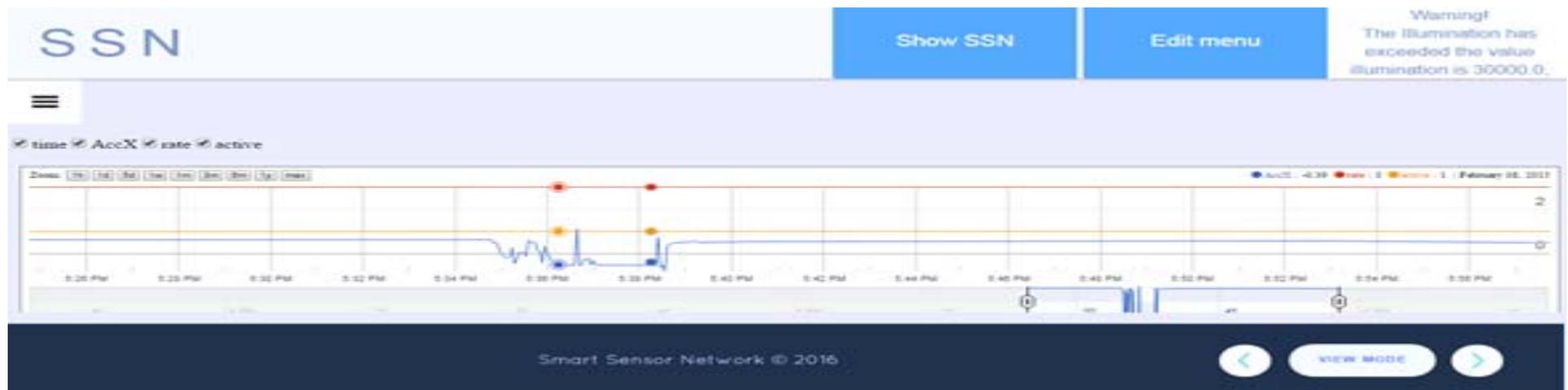
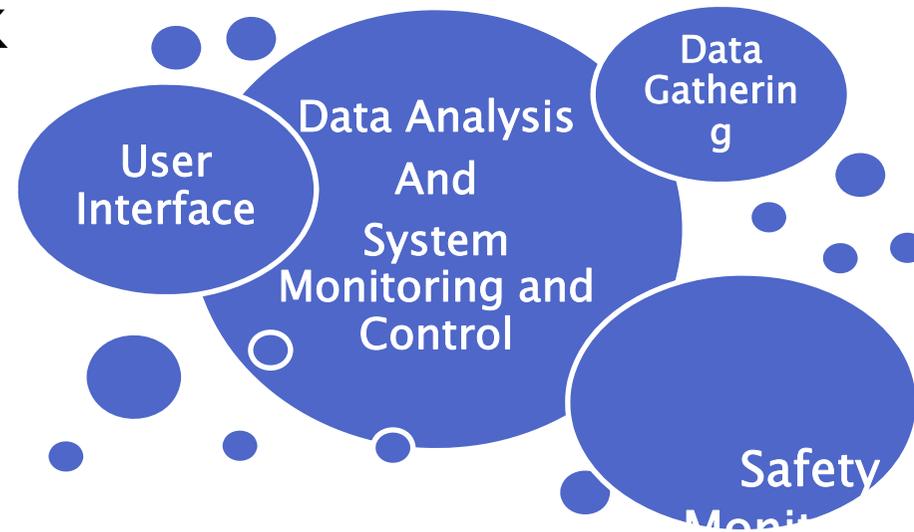
Microcontrollers and Wearable devices

Universal Gateway for communication between a wearable device (Pebble Watch) and various electronics devices.



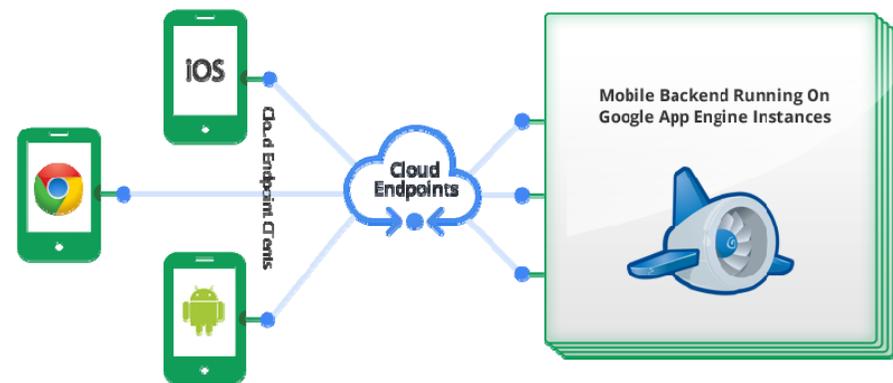
Web applications and Cloud Computing

Smart Sensor Network
Based on a
Cloud computing
Client service



Mobile applications

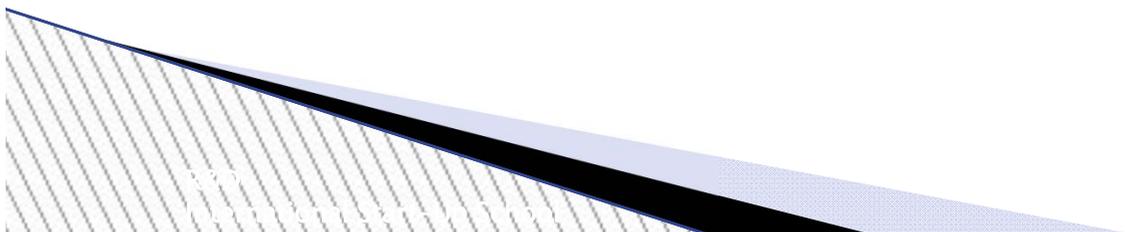
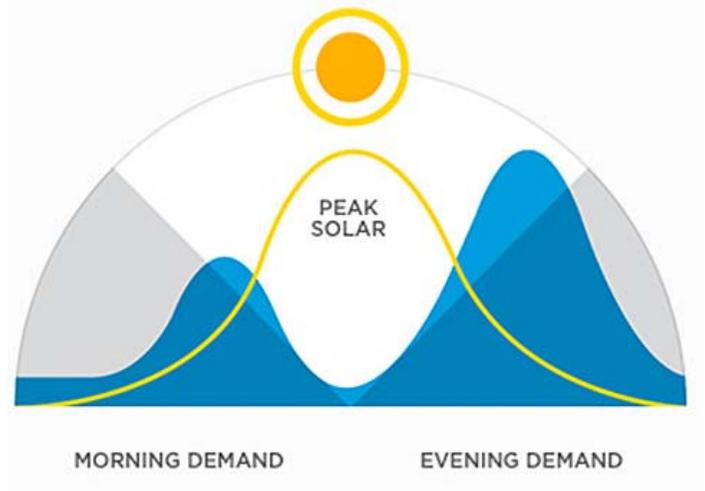
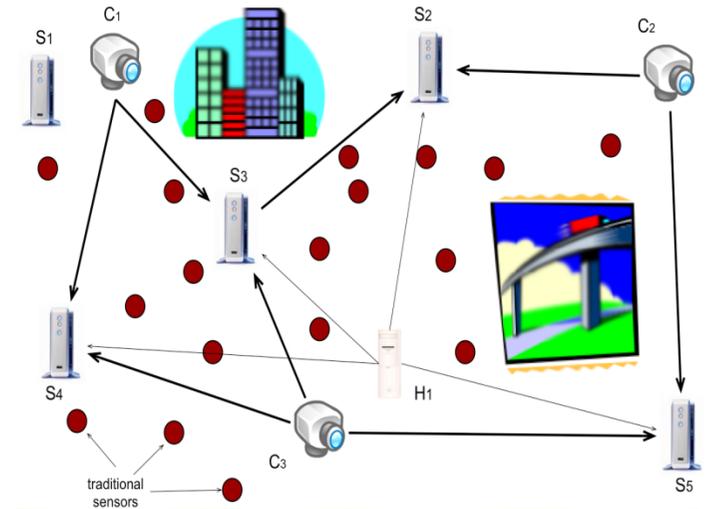
A mobile application to
Assist psychologists in
Conducing child interviews
And provide suggestions



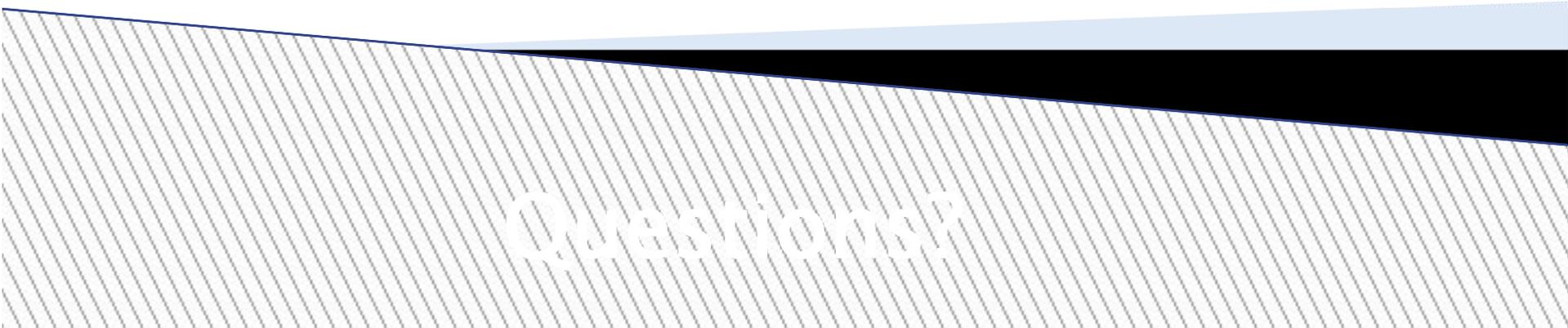
Alternative and green energy

Green Campus

- ▶ Monitoring and optimization of energy consumption (distributed sensor system and energy consumption control)
- ▶ Combination of varying tariffs and use of solar power and other green energy



**For those interested
an information session
can be arranged**



Questions?