

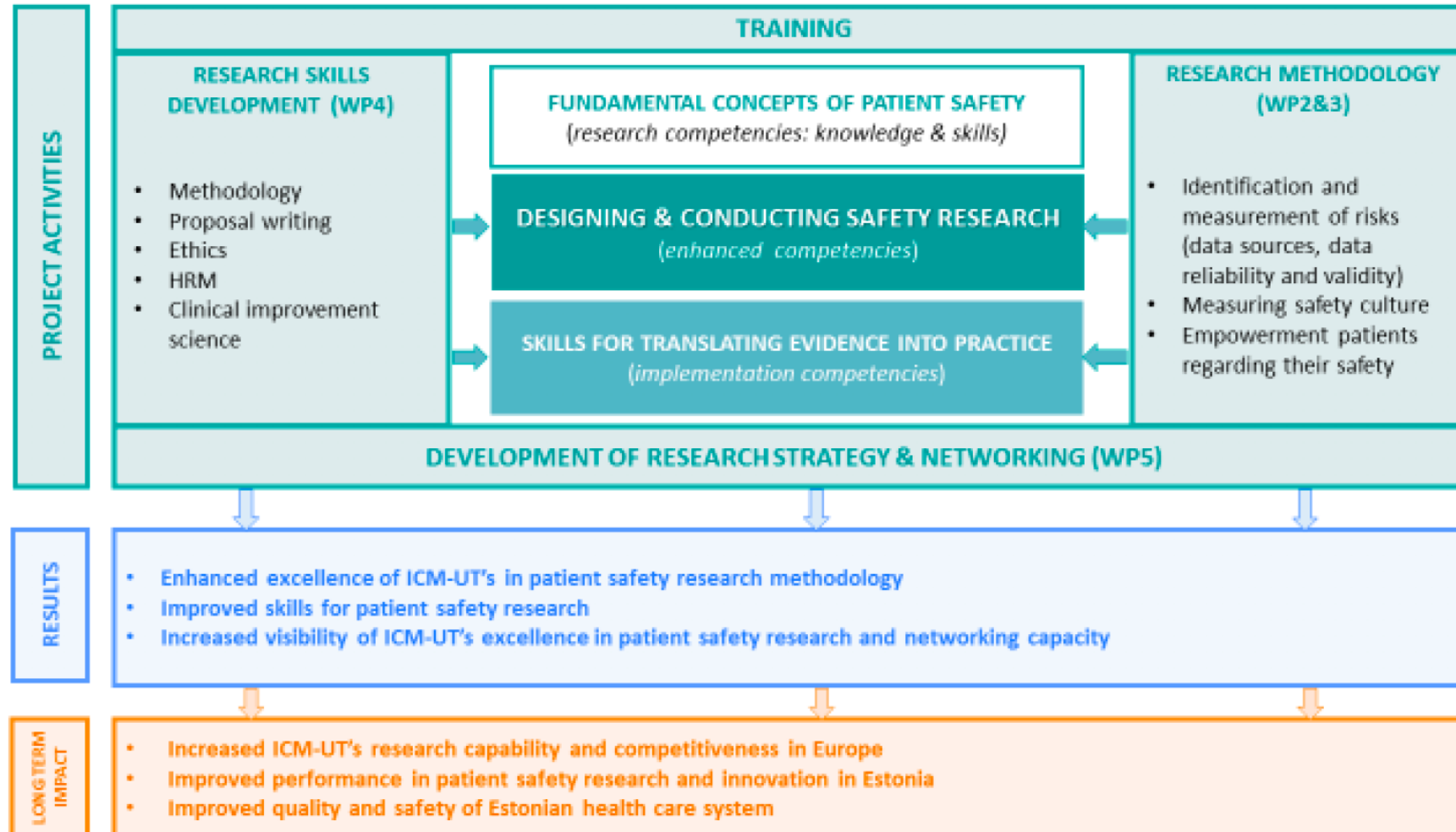
# Developing the University of Tartu to a well-networked **PATient SAFETY** research center in Estonia (**PATSAFE**)



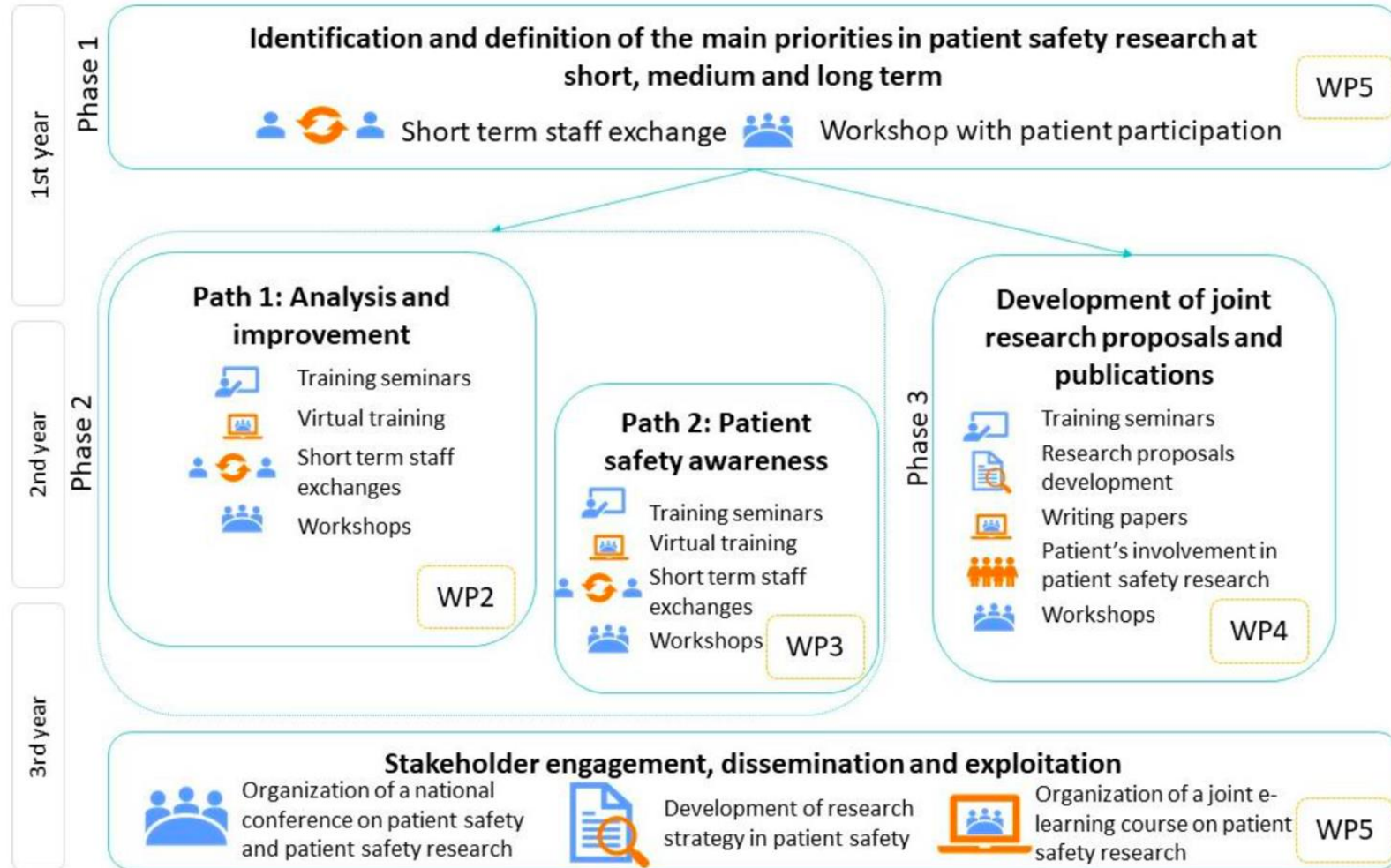
# PATSAFE PROJECT

- The **PATSAFE** project will enhance Institute of Clinical Medicine of the University of Tartu *research potential and capacities in patient safety* in order to improve and strengthen *knowledge and skills in methods, techniques* and *experience* for *patient safety research*.
- PATSAFE Project aims to
  - **Strengthen and raise the research profile of the ICM-UT academic staff and early stage researchers**, by implementing the hands-on training on the methods, techniques and experience in patient safety research;
  - **Encourage the active participation of early stage researchers in patient safety research by increase their soft skills**, to ensure the continuity and sustainability of patient safety research in the Institute of Clinical Medicine of the University of Tartu.

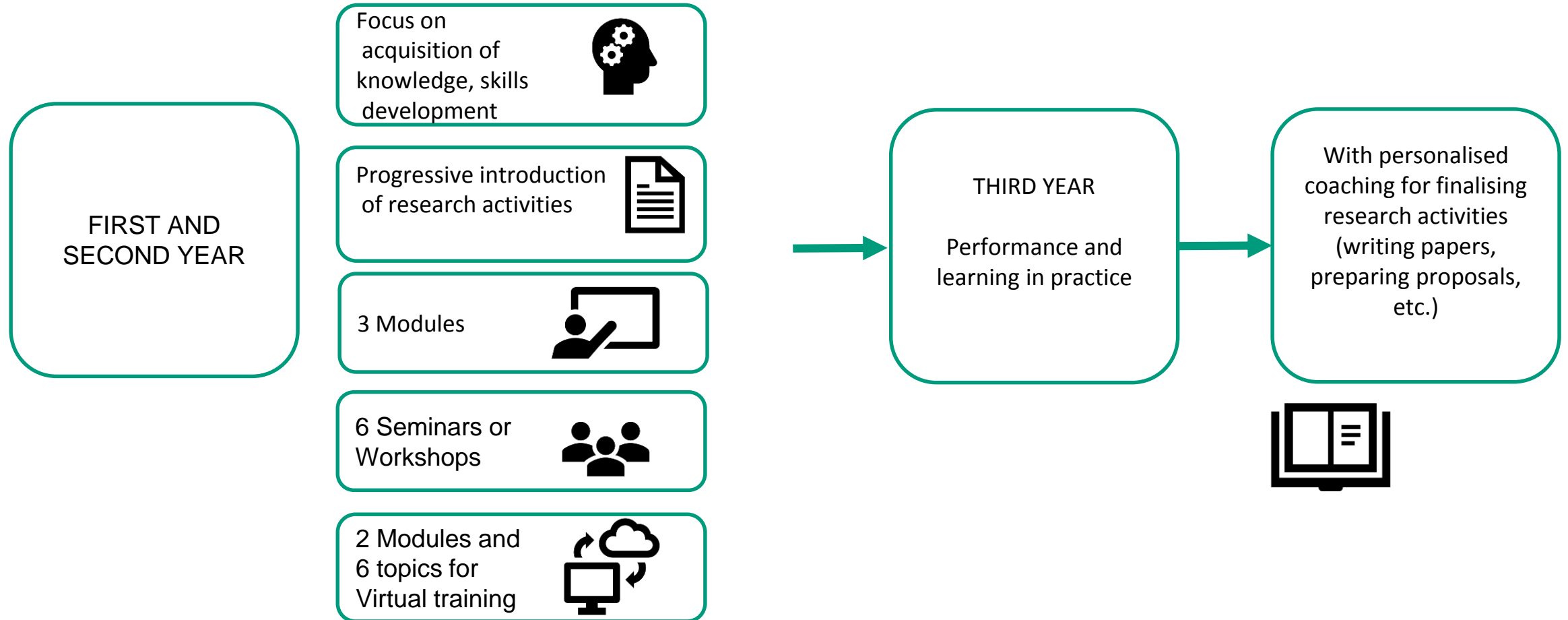
# Concept of PATSAFE



# Overall methodology of PATSAFE



# Curriculum structure and methodology



# Methods for the training program

- **Training seminars:** theoretical topics will be addressed by face-to-face interactive seminars, including case studies and discussions.
- **Virtual training:** all the material prepared will be organized by modules and pathways using a “Moodle” virtual platform. This system will be also used to promote exchange and facilitate work between face-to-face activities.
- **Short term staff exchanges:** In order to let the Tartu staff to visualize how to implement the research on different patient safety topics in real scenarios and have the opportunity to interact with other team member of the twinning organizations, short term staff exchange will be organized.
- **Workshops:** workshops will be designed to cover activities that need a higher number of participants or to identify and present the activities are being implemented in Tartu by the different departments and looking for synergies

# THEME 1: Basis on patient safety

<b>Topic 1: BASIC DEFINITIONS AND THE BURDEN OF UNSAFE CARE</b>	<b>FEBRUARY –AUGUST 2020</b>
<b>Fundamental concepts of the science of patient safety</b> Human errors and system errors	
<ul style="list-style-type: none"><li>• Taxonomies in patient safety</li><li>• Classification of errors and adverse events</li></ul>	
<b>Impact of adverse events</b>	
<ul style="list-style-type: none"><li>• Epidemiology of adverse events</li><li>• Nature and distribution of adverse events</li></ul>	
<b>Methods used for identification of adverse events</b>	
<ul style="list-style-type: none"><li>• Choice of appropriate methods</li><li>• Validity and reliability, sensitivity and specificity of different methods</li></ul>	
<b>Topic 2 METHODS OF ANALYSIS AND IMPROVEMENT OF ADVERSE EVENTS</b>	<b>SEPTEMBER 2020 –JANUARY 2021</b>
<ul style="list-style-type: none"><li>• General concepts</li><li>• Root Cause analysis</li><li>• Reporting systems</li></ul>	
<b>Topic 3 PROACTIVE METHODS: PROBABILISTIC RISK ASSESSMENT MODELS</b>	<b>FEBRUARY – AUGUST 2021</b>
<b>Proactive assessment</b>	
<ul style="list-style-type: none"><li>• Concept of risk</li><li>• Priority risk assessment</li></ul>	
<b>Healthcare Failure Mode and Effect Analysis</b>	
<ul style="list-style-type: none"><li>• Main phases and applications</li></ul>	
<b>Topic 4: IMPLEMENTATION SCIENCE: TRANSLATING RESEARCH INTO SAFE CARE</b>	<b>SEPTEMBER – JANUARY 2021</b>
<b>Evidence-based safety practices</b>	
<b>Implementation research on patient safety</b>	
<ul style="list-style-type: none"><li>• Mixed methods used to assess implementation of patient safety practices</li><li>• Theory-driven interventions' design</li></ul>	
<b>Concept of complex interventions</b>	
<ul style="list-style-type: none"><li>• How to define and evaluate complex interventions</li><li>• Intervention fidelity</li><li>• Process and results outcomes</li></ul>	
<b>Evaluating context</b>	
<ul style="list-style-type: none"><li>• Understanding the determinants and barriers to implementing interventions</li></ul>	

# THEME 2: Patient safety culture and patient involvement

TRAINING ACTIVITY & TOPICS	PLANNING
<b>E-learnings 5 &amp; 6</b>	<b>August/september 2020</b>
Introduction in patient involvement (e-learning 5), and patient safety culture (e-learning 6)	
<b>Workshop 2 (2 days)</b>	<b>September/October 2020</b>
Validating techniques of measurement tools for safety culture	
<b>Workshop 3 (2 days)</b>	<b>January 2021</b>
Validating techniques of measurement tools for safety culture	
<b>Staff exchange (2.5 days; 2 ESR/PhDs)</b>	<b>March 2021 (proposed)</b>
Focus on prospective measurement for risk identification in practice ( <i>possibilities for also literature review</i> )	
<b>Workshop 4 (2 days)</b>	<b>March/April 2021</b>
Validating techniques of measurement tools for safety culture	
<b>Workshop 5 (2 days)</b>	<b>June 2021</b>
Validating techniques of measurement tools for safety culture	
<b>Workshop 6 (2 days)</b>	<b>September 2021</b>
Validating techniques of measurement tools for safety culture	
<b>Staff exchange (2.5 days; 2 ESR/PhDs)</b>	<b>October 2021 (proposed)</b>
Focus on prospective measurement for risk identification in practice ( <i>possibilities for also literature review</i> )	
<b>Coaching on a distance with some visits to ICT-UT</b>	<b>September 2021/June 2022</b>
E.g. on (prospective) risk identification, finalizing a literature review on interventions to improve patient safety culture, ...	



# THEME 3: Building soft skills for patient safety research

Training activity	Content	Planning
Face-to-face workshop I	Introduction for research skills	February 2020
<b>Topic I Research proposal</b>		
Face-to-face workshop II	<ul style="list-style-type: none"> <li>•The structure of research proposal</li> <li>•Budgeting of the research proposal</li> <li>•Planning of the timetable of research proposal</li> <li>•Funding sources of the research proposal</li> </ul>	February 2020
<b>Topic II Research ethics</b>		
Face-to-face workshop III	<ul style="list-style-type: none"> <li>•Ethical principles of health research</li> <li>•Informed consent</li> <li>•Researcher's responsibilities in research proposal</li> <li>•The process of ethics review by ethics committee</li> </ul>	August 2020
<b>Topic III Intellectual property rights (IPR) and commercialization in research</b>		
Face-to-face workshop IV	<ul style="list-style-type: none"> <li>•Intellectual property rights</li> <li>•Commercialization of the findings based scientific research</li> </ul>	January 2021
<b>Topic IV Human resources (HR) and change management in clinical setting</b>		
Face-to-face workshop V	<ul style="list-style-type: none"> <li>•Implementation theories of novel practices</li> </ul>	September 2021



- Project partners:
  - Avedis Donabedian Foundation, Barcelona, Spain
  - IQ healthcare, Radboud university medical center, Nijmegen, The Netherlands

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