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# KhAI-ERA

**Integrating the National Aerospace University “KhAI”  
into European Research Area**

## ***Project Overview***

*Igor Rybalchenko, project coordinator*



Activity 7.6 Reinforcing cooperation with  
Europe's neighbours in the context of the  
ERA (FP7-INCO-2011-6, ERA-WIDE)  
ACTIVITIES OF INTERNATIONAL COOPERATION

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**Project goal - To integrate KhAI into ERA**

- ✓ twinning with European research and innovation organisations
- ✓ setting up joint pilot research
- ✓ developing cooperation

in the three KhAI's strongest research areas.



# Research Topics

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## **A: Composite Materials:**

- A1. Composite structure design optimisation
- A2. Composite structure manufacture and repair

## **B: Advanced Manufacturing for Aircraft Assembly:**

- B1. Advanced manufacturing tools for aircraft assembly
- B2. Advanced manufacturing processes for aircraft assembly

## **C: Dependable Embedded Systems:**

- C1. For aerospace applications
- C2. For medical applications

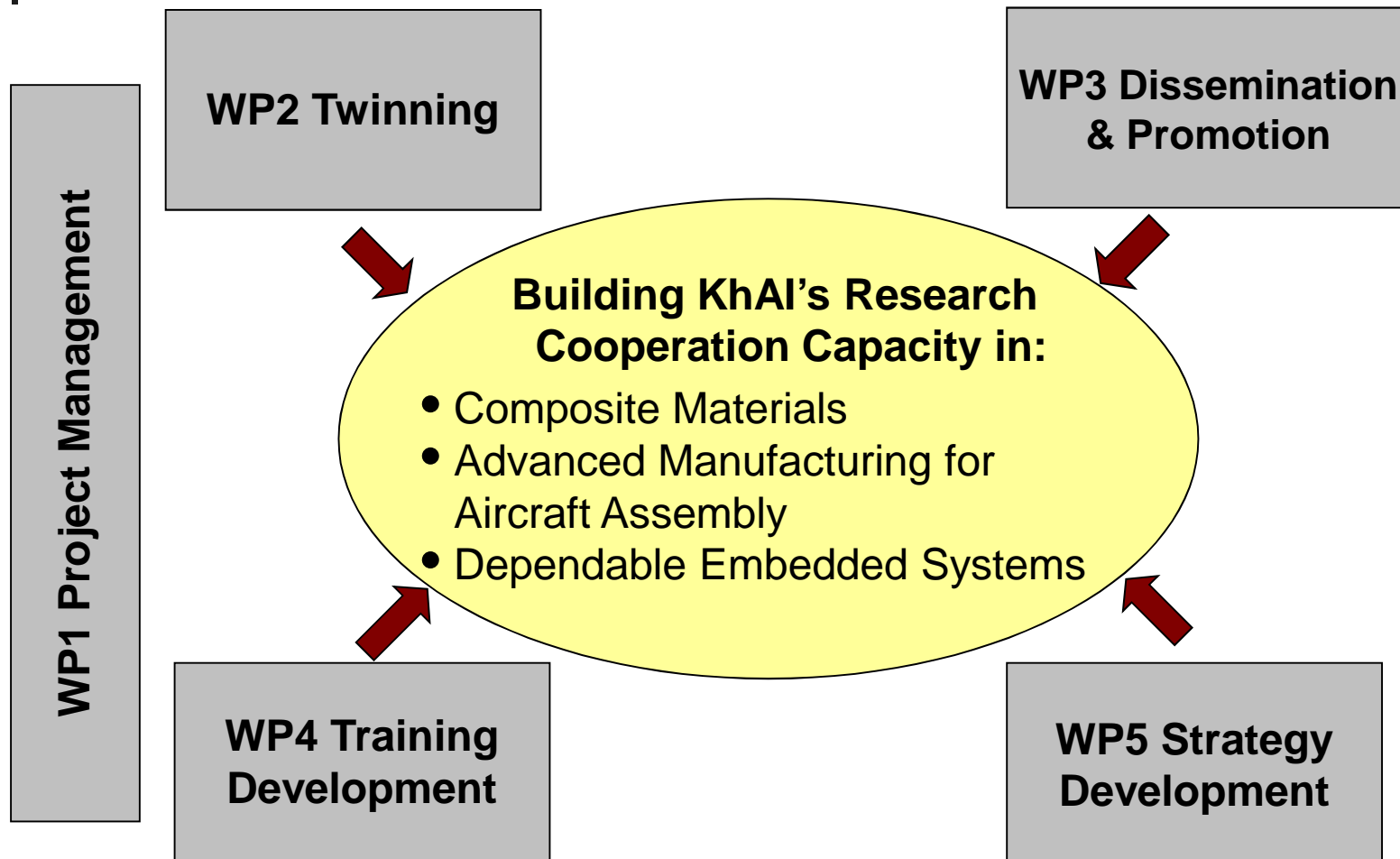
# Project Partners

- Institute of Aerospace Engineering, Brno University of Technology (Czech Republic)
- Fraunhofer Institute for Factory Operation and Automation (Germany)
- Centre for Integrated Electronic Systems and Biomedical Engineering, Tallinn University of Technology (Estonia)
- Intelligentsia Consultants (Luxembourg)

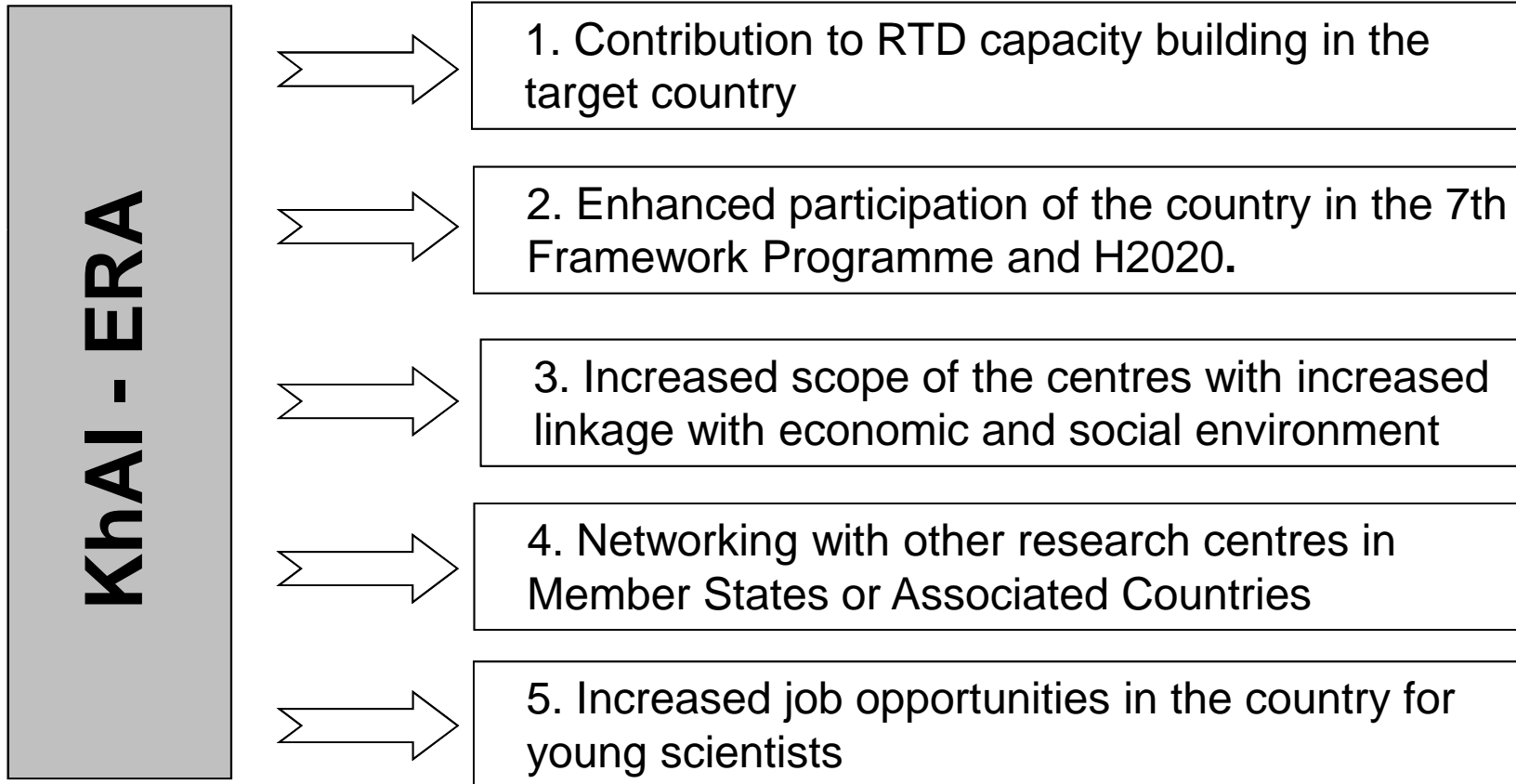


**Project duration: Dec 2011 – May 2015**

# Work Plan Basic Structure



# Expected Project Impact





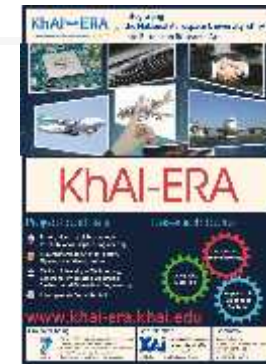
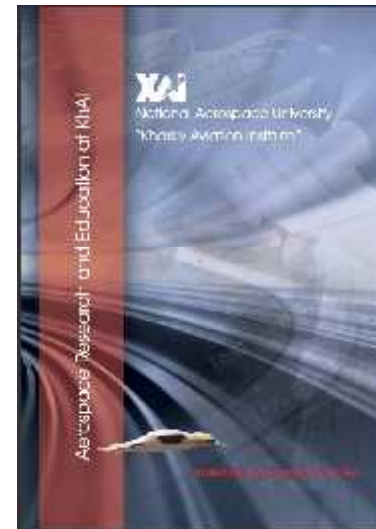
# WP 2: Twinning

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- ✓ **bilateral partners meetings**
- ✓ **research workshops**
- ✓ **joint research papers to international journals**
- ✓ **joint participations in the international conferences**
- ✓ **relevant EU conferences, workshops, etc. attendance**
- ✓ **FP7 proposals submission**
- ✓ **H2020 proposals submission**

# WP3: Dissemination & Promotion: KhAI + KhAI-ERA

- Conference & relevant events participation
- Research publications in peer-reviewed journals
- Mass-media & promotional material dissemination
- Project website



<http://khai-era.khai.edu>





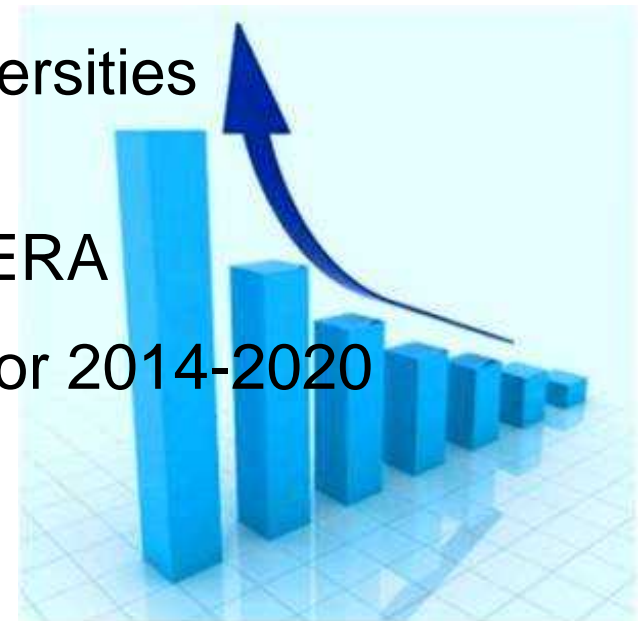
# WP4: Training Development

- ✓ Training Modules relevant to the Research Topics
- ✓ Training Modules relevant to FP7
- ✓ Training Modules relevant to HORIZON 2020
- ✓ EU training events for Transport NCP staff



# WP5: KhAI Evaluation & Strategy

- **Focus:** Research excellence & environment
- **Methodology:** Self-assessment + Experts' evaluation
- **Evaluation results:**
  - KhAI benchmarking with EU Universities
  - Set of Experts' recommendations to increase KhAI integration into ERA
- **Key outcome:** KhAI R&D Strategy for 2014-2020





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Kharkiv, UKRAINE*

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