

# european training network on full parallax imaging



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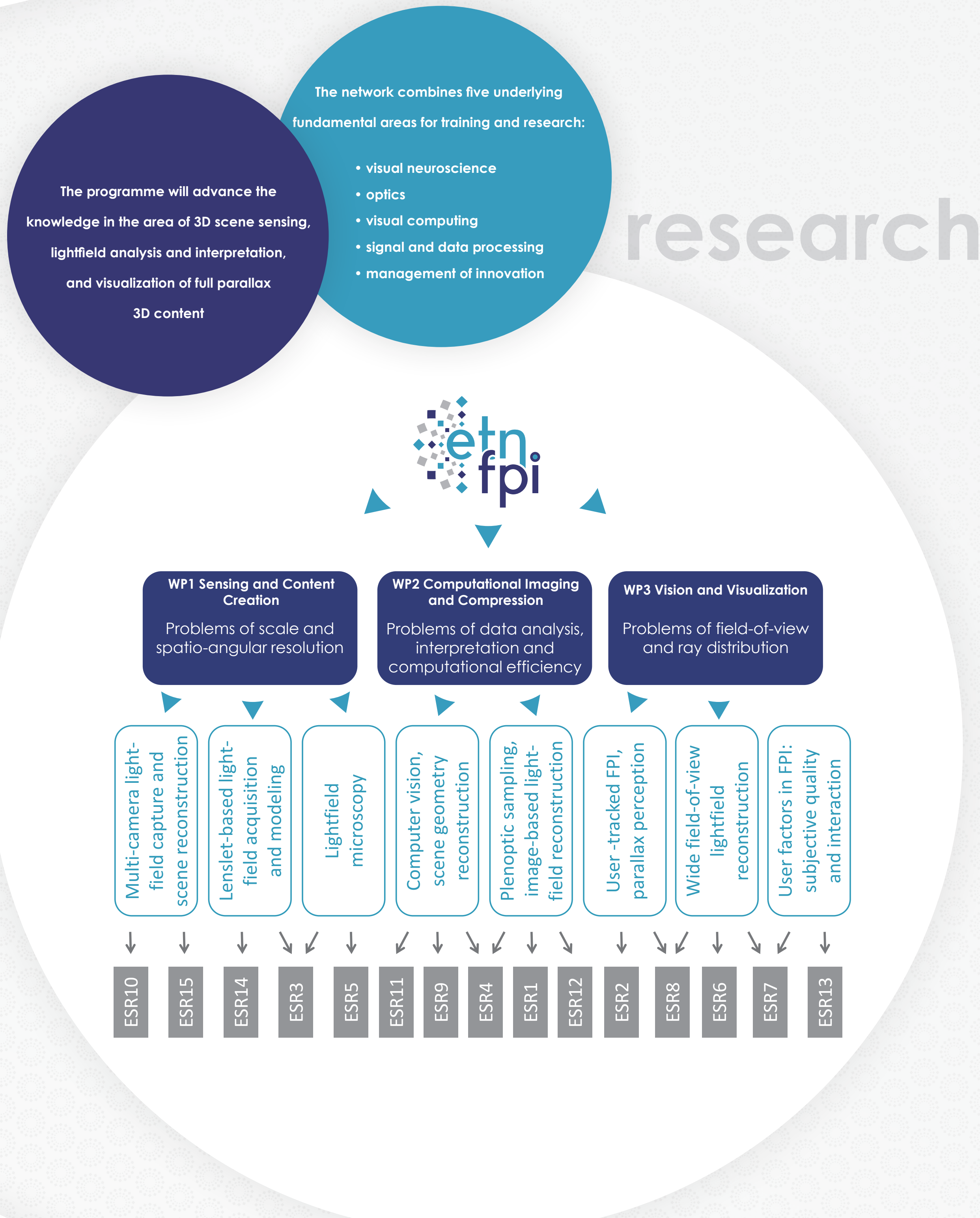
The project studies the phenomena of lightfield formation, propagation and perception in order to develop future imaging devices, which recreate the visual world realistically. Different disciplines deal with these phenomena. Physics and optics look at light as either wave or ray phenomenon and study its propagation and diffraction effects therein. Computer graphics deals with properties of materials, lighting conditions and corresponding ray rendering. Computer vision studies object recognition, scene analysis and interpretation. Visual neuroscience builds computational models to describe and quantify how our vision works. Naturally, different fields of science approach relevant problems using different concepts and terminology.

The research programme is organized in three work packages (WPs), where individual projects are integrated in order to address the challenges in full parallax imaging:

WP1: Sensing and content creation, focusing on problems of optimal spatial-angular resolution for lightfield sensing

WP2: Computational imaging and compression, focusing on problems of analysis, interpretation and compression of lightfield data

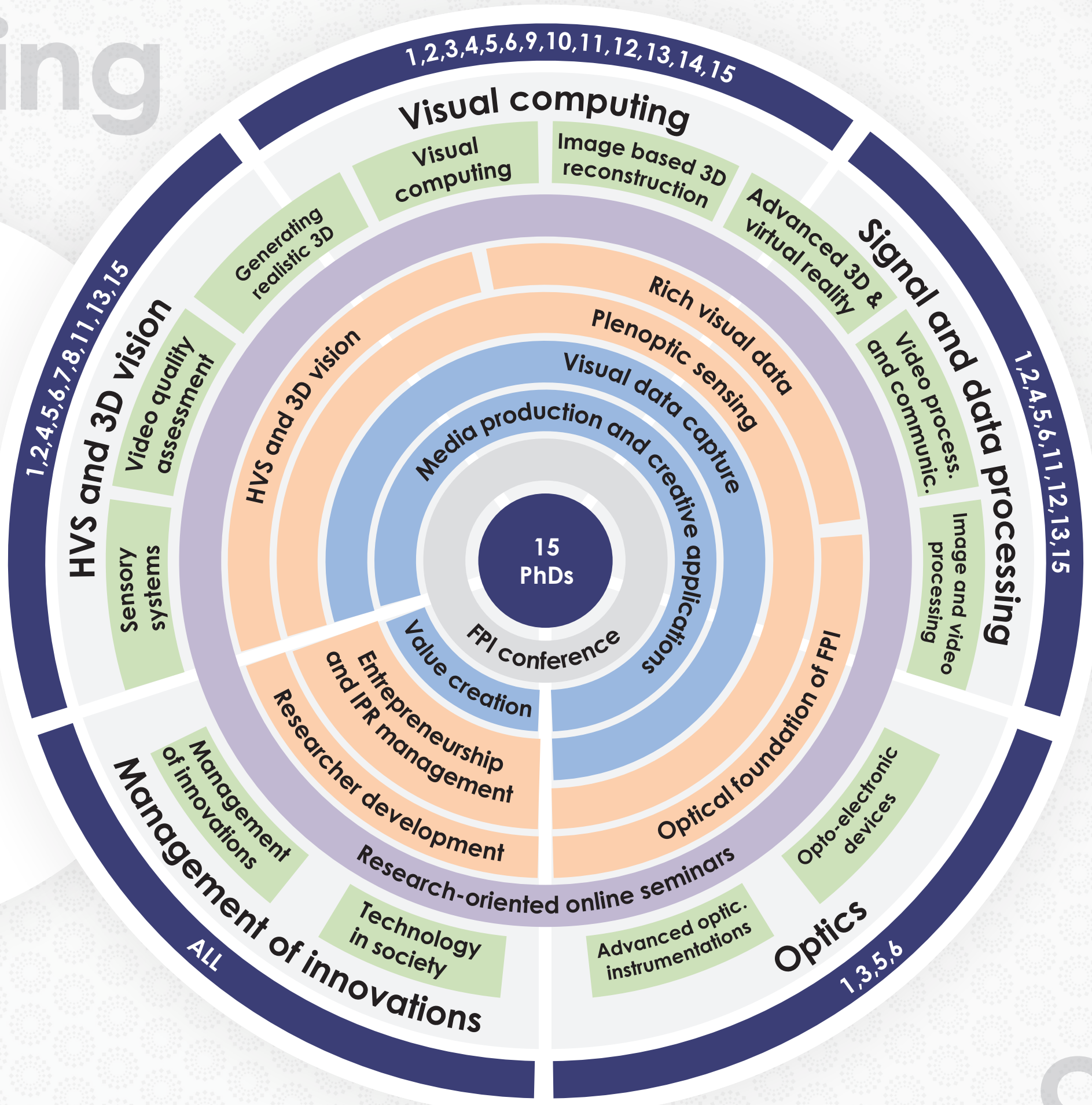
WP3: Vision and Visualization, focusing on problems of full parallax visualization of 3D data



research

training

- Workshop
  - Training School
  - FPI conference
  - Online seminar
  - Local courses
  - ESRs
- FPI: Full parallax imaging  
HVS: Human visual system



full-parallax-imaging.eu  
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