

TSSG



LIGHT AI ON-Demand
Platform

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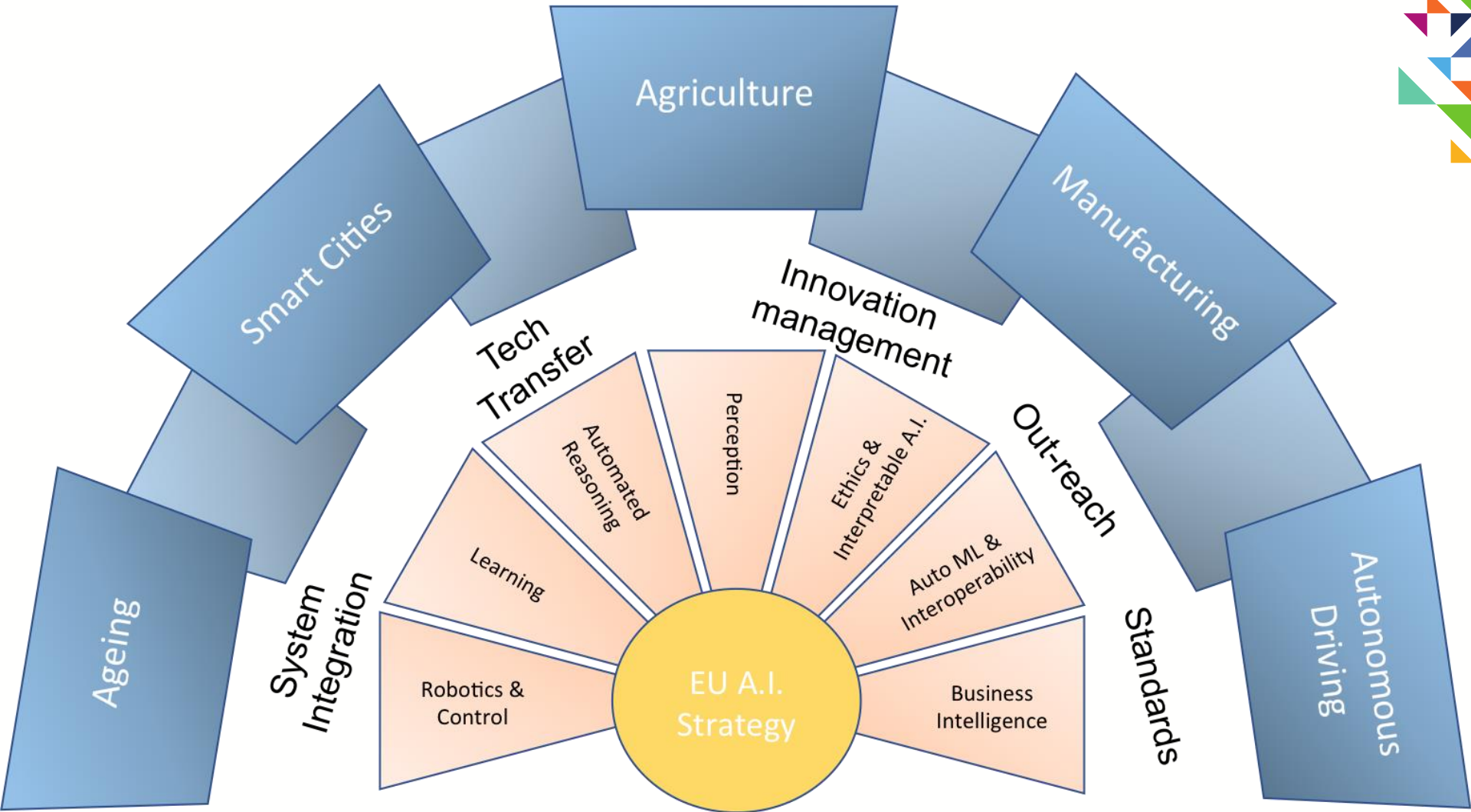
Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Vision

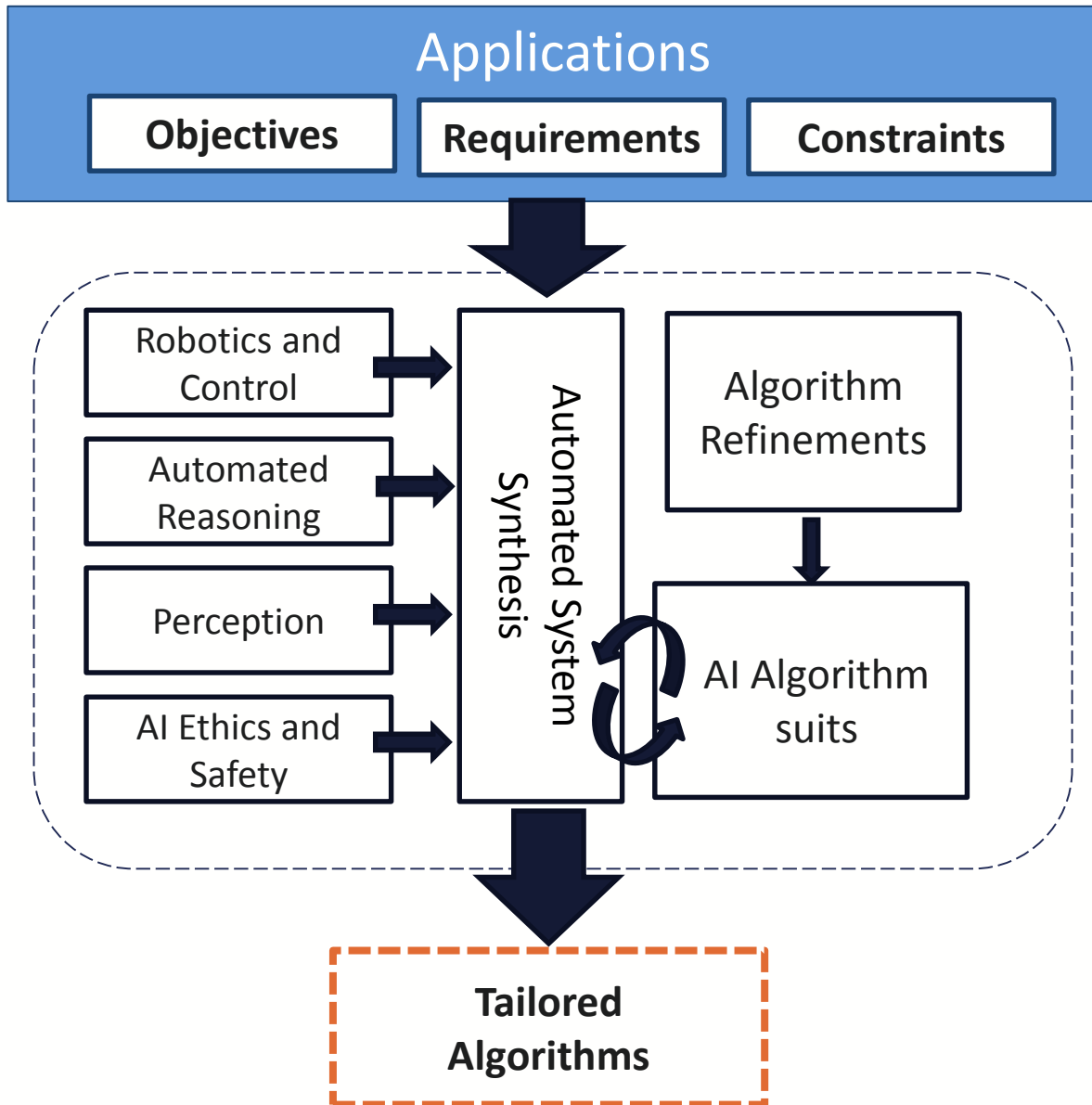
The vision shared by the *LIGHT* consortium is a **world-class, distributed, open access and ambitious** Research and Innovation AI Ecosystem that reinforces **European AI scientific excellence** coupled with a **vibrant, entrepreneurial culture** and **frictionless access** to technology to benefit **humanity**.



AI On-Demand Eco-System

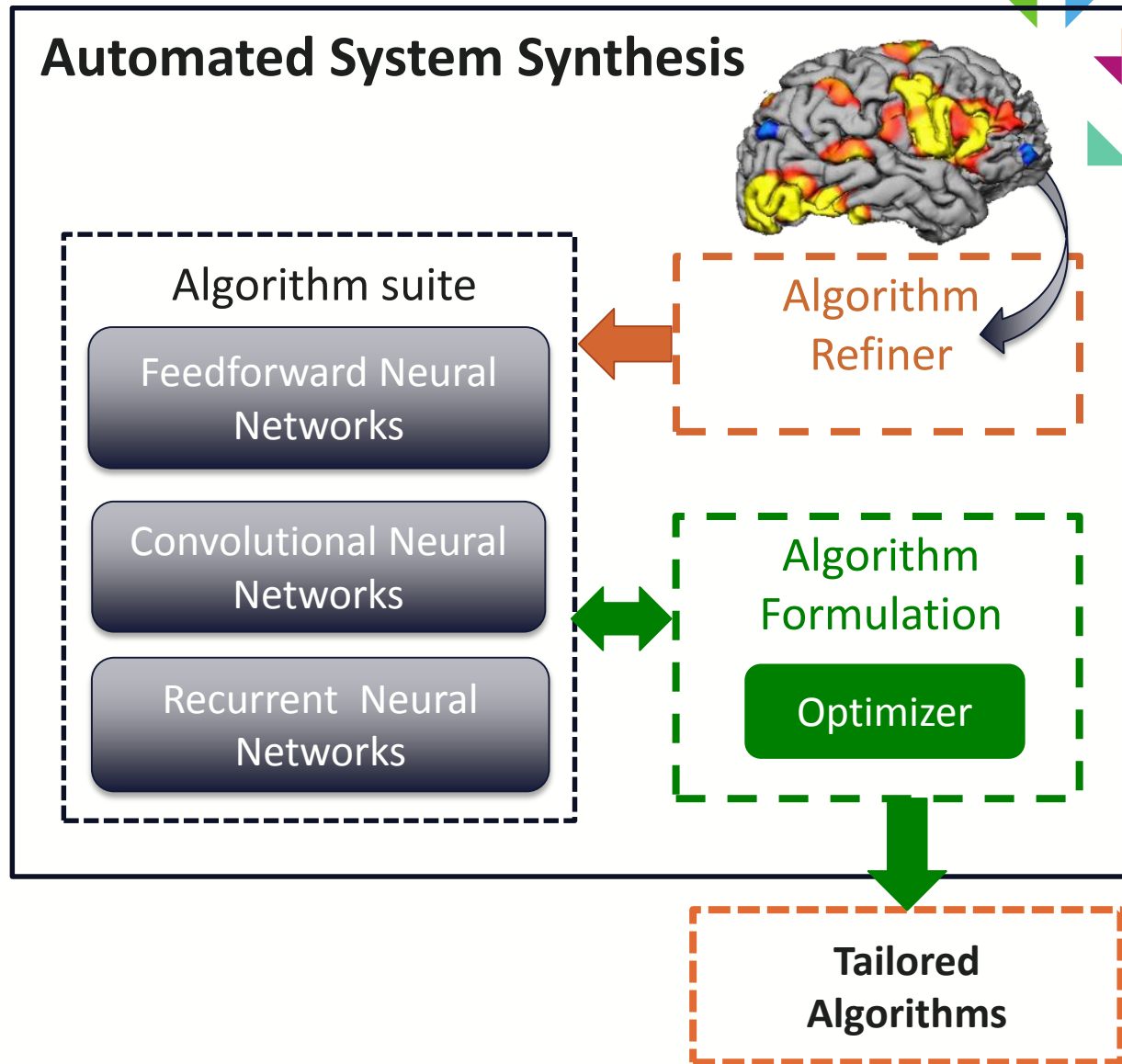


Framework



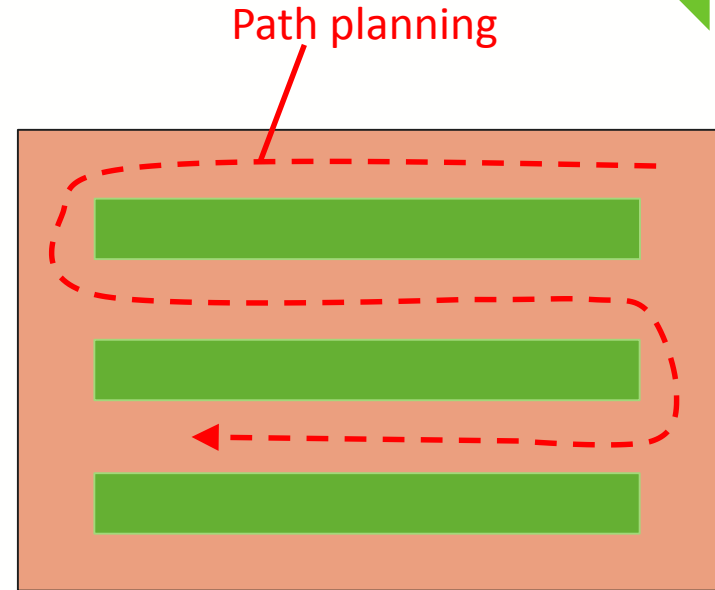
Automated Synthesis System

- Contains suites of Algorithms
- Refiner will continually update Algorithms
- Algorithm formulation produces the optimum algorithm



Example: Robotic Smart Farming

- Automated Synthesis System
 - **Robotic and Control:** Considers robotic path planning learning module
 - **Learning:** Integrated Learning algorithm (**Neural Nets)
 - Quantity of fertilizers
 - Condition of vegetation
 - **Perception:** Vision, image and sensor information process (**Convolutional Neural Networks)
- Integration of positive objectives
 - Minimization of pollutants for clean environments



Application Areas

Aging

Smart
Cities

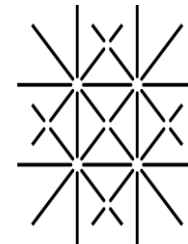
Agriculture

Autonomous
Driving

Manufacturing



MAX-PLANCK-GESELLSCHAFT



UNI
BASEL