

Green Innovation COMPASS

*Your navigation tool through
sustainable transition*

Green Innovation: Where to go?



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Applicability

Savings

Risks

Efficiency

CO₂
Emissions

Availability

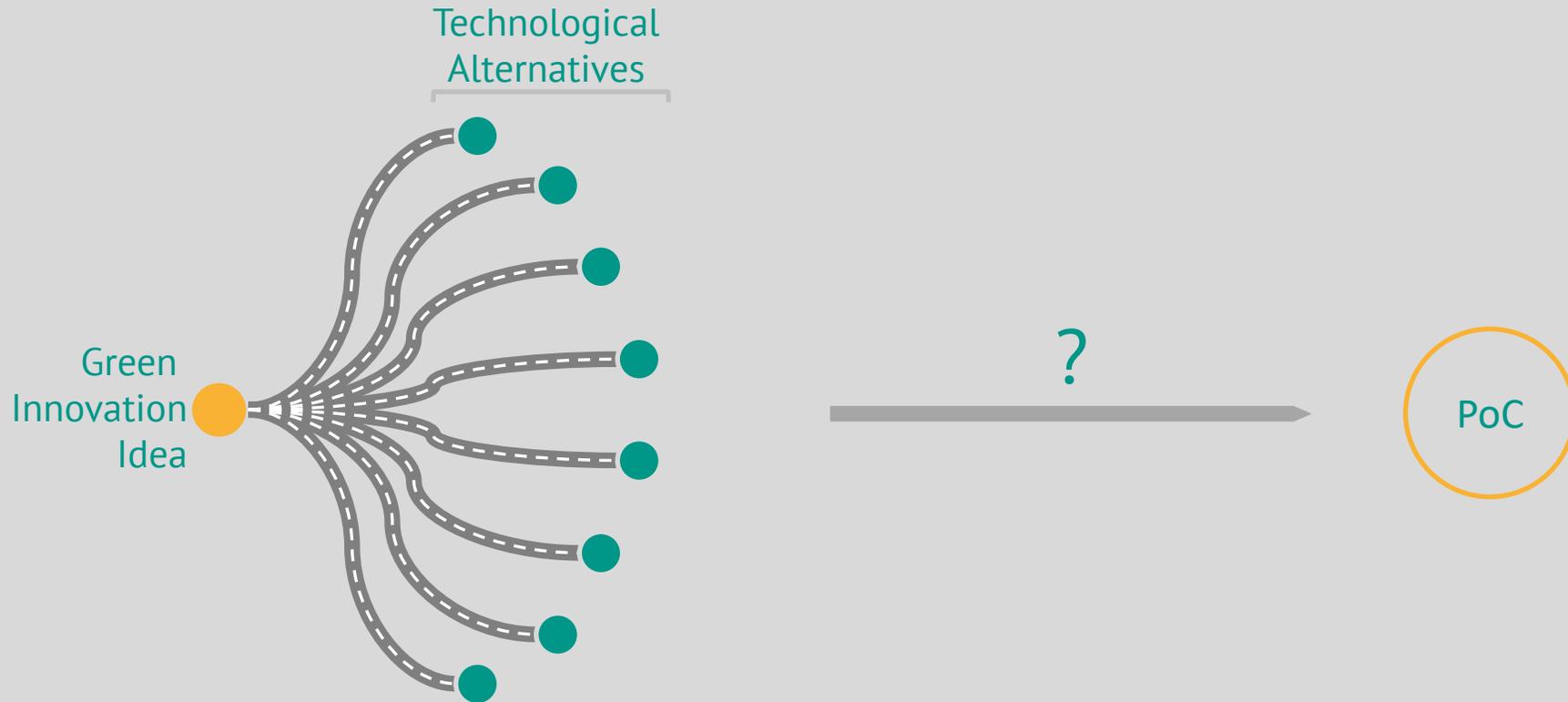


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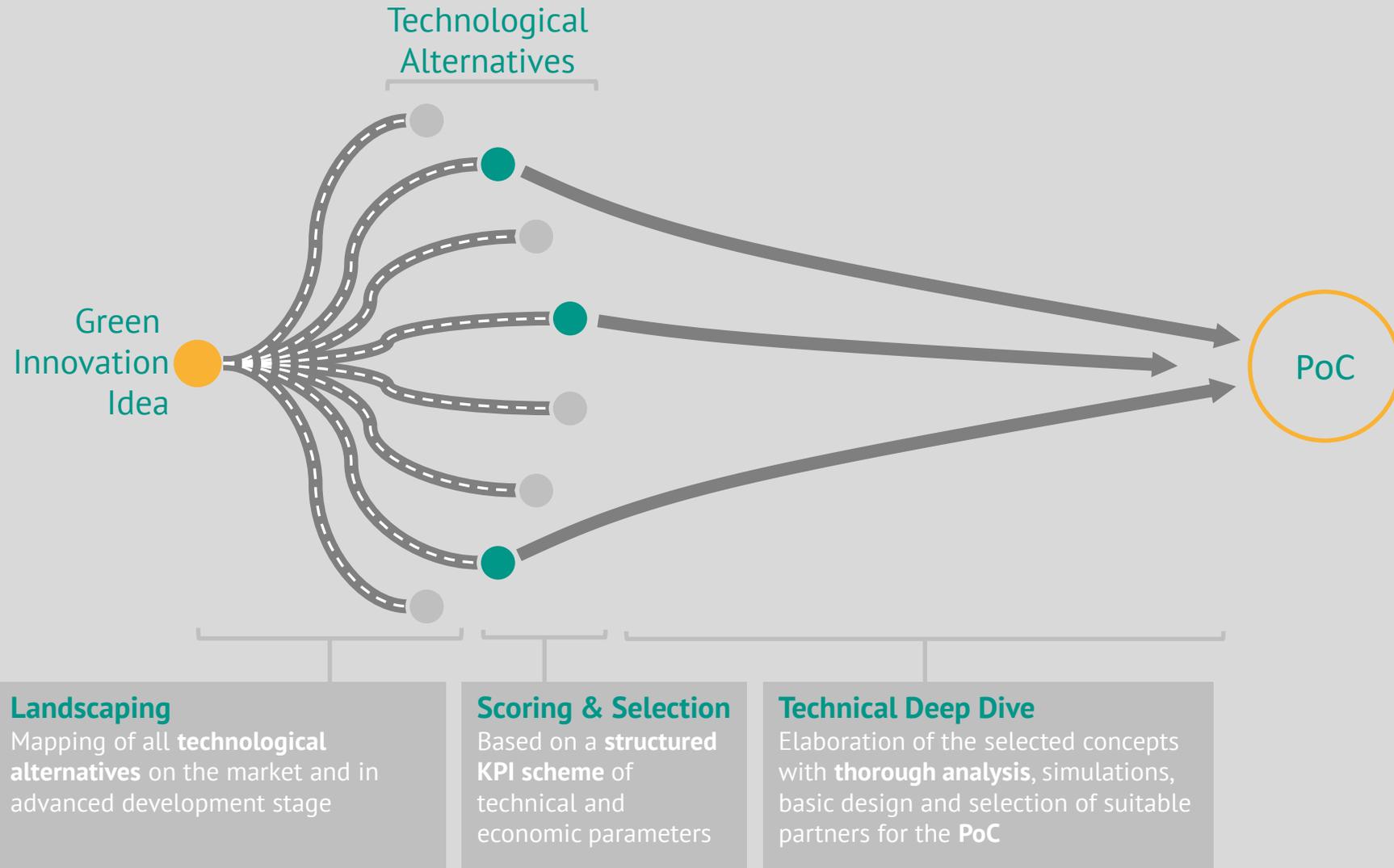
Your navigation tool through energy transition



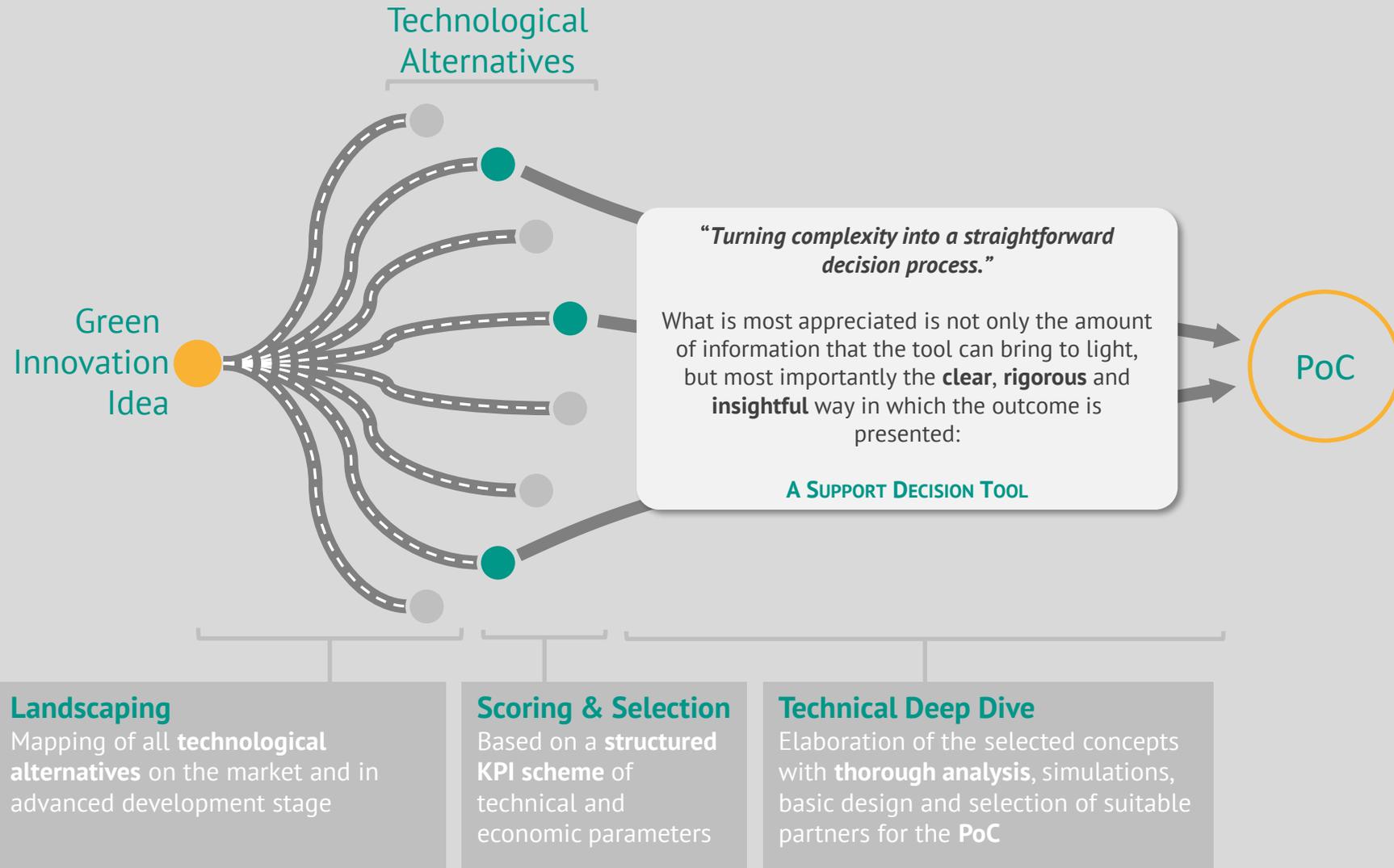
From the idea to the Proof of concept



From the idea to the Proof of concept



From the idea to the Proof of concept



The Pillars of our Service



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ENGINEERING APPROACH

Deep **knowledge** of all energy transition related technologies and processes:

- **Energy** systems
- **Industrial** processes
- Technical **Due Diligence**
- System **modelling**
- **Scenarios** simulation
- Numerical **optimization**
- **Predictive** Analysis



SOLVERS NETWORK

Our extensive network of partners bringing **cutting-edge technologies** or specific knowledge:

- **Companies**
- **Start-ups**
- **Research Centres**



KPI EVALUATION SCHEME

Application-tailored sets of KPIs are part of the “**engine room**” of the tool, assessing multi-objective problems looking at:

- **Economics**
- **Carbon Footprint**
- **TRL & maturity**
- **Technical** parameters
- Project **specific** features



SUPPORT DECISION TOOL

What is most appreciated is not only the amount of information that the tool can bring to light, but most importantly the **clear, rigorous** and **insightful** way in which the outcome is presented:

“Turning complexity into a straightforward decision process.”



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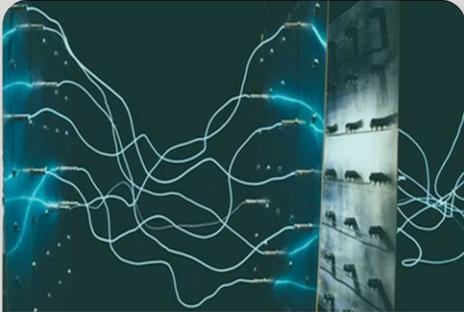
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Application Fields



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ELECTRIFICATION



RENEWABLE SOURCES



ENERGY EFFICIENCY



WASTE HEAT RECOVERY



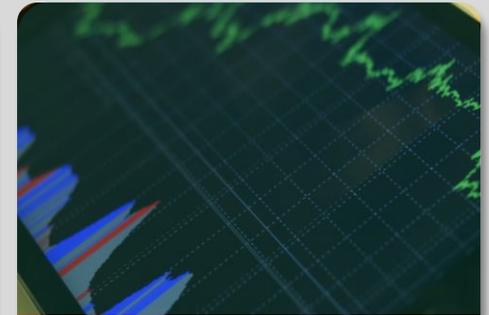
HYDROGEN



BIOFUELS



CARBON CAPTURE



DIGITALIZATION / OPTIMIZATION



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Some References

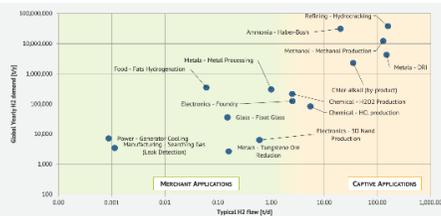


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GREEN H2 – EARLY BUSINESS OPPORTUNITIES

H₂ as a Feedstock | Quantitative Estimation

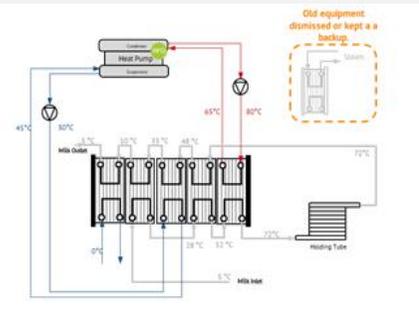
The most promising applications for green H₂ are the ones belonging to the Merchant Market (low Typical H₂ flow) and high global market demand (G₂₀₁₉)



The creation of **total cost of ownership models** for a decision support tool in the commercial proposition to the first target clients.

- > 30 H₂ applications characterized, globally
- 6 project-specific KPIs

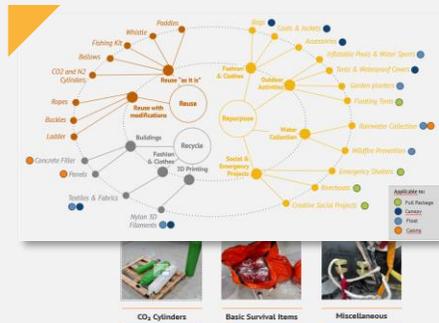
INDUSTRIAL HEAT ELECTRIFICATION: SUITABLE TECHNOLOGIES



Support in the development and **business cases** of new full-electric and high efficiency process lines.

- 16 industrial applications
- > 20 tech. providers involved
- 9 target client clusters

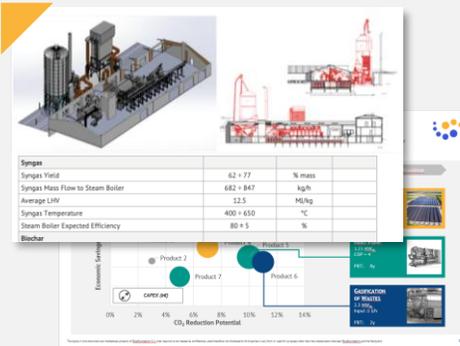
SECOND LIFE TO MARINE LIFE RAFTS



Finding ways and **innovative solutions** to avoid the landfilling of high-performance materials, towards circularity certification.

- 25 2nd life applications
- Cost reduction
- Positive social impact

CONVERSION OF AN INDUSTRIAL PLANT TOWARDS NET-ZERO EMISSIONS



A wide range of **technologies** have been carefully selected, combined and **dimensioned** to obtain **sustainability** at lower costs.

- - 2'500 tCO₂/y
- 4 MWth of Heat Pumps
- 300 kWth Solar Thermal



Our Clients



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Why they choose Bluefoundation



CO₂ reduction is our mission



Tailor made approach

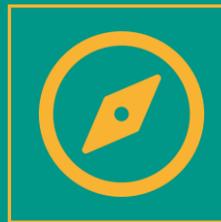


Independent Thinkers



We don't work for you, we work with you





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