



# EU Funding: Learnings from an Irish SME

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#### **Presentation Overview**

- EireComposites
- Horizon 2020 SME instrument
- Other R&D funding
- Key Learnings





### **Company Overview**

- Supplier to 3 aircraft programmes Bombardier Global, Airbus A320
  V2500 engine, A400M
- Manufacturer of wind turbine blades up to 13m
- Leader in composites testing in Europe (CTL)
- Collaborative R&D with Bombardier, ESA, <u>ScotRenewables, Suzlon</u>
- Patents granted & pending in heated tooling and processes
- Started in 1997 to exploit opportunities for composites technology
- Academic origins but evolved to meet industrial opportunities
- 72 staff, including over 20 engineers





### **Selection of Customers – Testing**

#### **Aerospace**



#### Wind Power



#### Other

COMPOSITES



# SEAMETEC

Smart Efficient Affordable Marine Energy Technology

**Exploitation using Composites** 





Company Activities Manufa

Manufacturing Testing

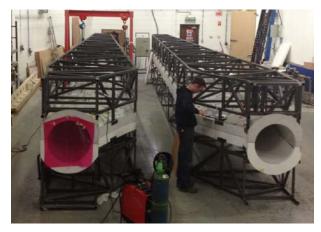
Research

#### Horizon 2020 SME

- SEAMETEC Project Horizon 2020 SME instrument
- SEAMETEC is an excellent opportunity to develop tidal turbine blades using European funding
- Tidal blades and wind turbine spars

**Company Activities** 

- Sensors on\in blades
- MarinComp Project looking at carbon fibre spars in offshore wind energy



Testing

Tooling

Design

Research

Manufacturing



#### **SME Instrument**

- Advantages
  - Faster assessment. Submitted in June. Money in October
  - Aimed at high TRL (Commercialisation of R&D)
  - Aimed at SMEs (Not SME as a small player in a large consortium)
  - Less bureaucratic (But still room for improvement)

Manufacturing

- Limitations
  - Very new few examples to copy

**Company Activities** 

- Still quite rigid in terms of submission timelines\changes etc
- Only allowed one submission at a time



Testing

Tooling

Design

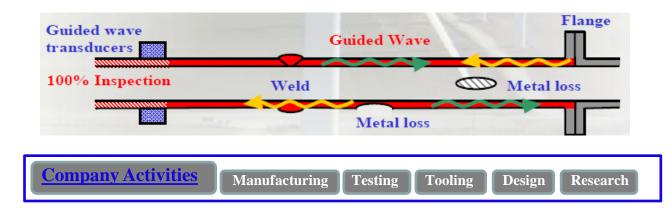
Research



### **Our Approach**

- Discuss potential projects internally and select best
- Find a suitable partner
- Contact NCP for guidance
- Study the ECAS website guidelines
- Write proposal
  - Focus on impact
  - Demonstrate excellence
  - Make proposal easy to skim-read

#### Review proposal against assessment guidance





## **Key Learnings**

- Listen to your NCPs and ask them questions
- Pick the right research projects
  - High TRL, high impact, strong business case
- Pick the right stream for your proposal
- Consider going straight for Phase 2
- Think hard about finding a partner or going it alone
  - Use international partners
- Plan Phase 1 submission date back from Phase 2 deadlines
  - Not just 6 months as default
- Avoid trying to amend the contract once its signed







## **Other Funded R&D**

- MarinComp Project (Marie Curie FP7)
  - Carbon fibre in marine energy
- Future Launchers Preparatory Programme FLPP 2.1 \ 2.2
  - Composite structures for Ariane 6
- EU Framework 7 YBRIDIO Programme
  - Materials joining



- Development of Thermal Welding of TPC Aircraft Structures
  - Collaboration with Bombardier Aerospace (Northern Ireland)
- Design and development of TPC Helicopter Structures
  - Collaboration with Eurocopter Deutschland (Germany)

Manufacturing

Testing

Tooling

Design

Research

- Clean Sky Helicopter Door
- Enterprise Ireland funding

**Company Activities** 

Research and Development Grants



#### **General learnings**

- No such thing as a free lunch requires a lot of work
- R&D needs to be linked to company strategy
  - Direct links from R&D (new products and services)
  - Indirect links (competency, reputation, knowledge)
  - Aerospace work from space research indirectly
- Success in R&D breeds further success
- Need to work with "nice" partners

**Company Activities** 

• Success in R&D funding can be a game-changer for an SME

Manufacturing



Testing

Tooling

Design

Research





# **Thanks for your time!**

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