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Early TRL support

Norman Morrison – ETP (marine)

6th March 2019

Saltire tidal energy challenge fund

- Challenging essential criteria
  - Previous operational deployment requirement
  - Project to be deployed in Scottish waters < March 2020
- Early TRL technologies will not satisfy these
- Other support is available

Interface
The knowledge connection for business

Knowledge Transfer Partnerships

EPSRC

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Working with universities

- Scotland has 19 universities!
- ETP is the SFC research pool focussed on energy research
- 13/19 are ETP members and active in leading energy related research
- There is significant capacity and a wide range of facilities across this network
- Great resource to help you progress through the TRLs and demonstrate your technology.

University of Aberdeen
University of Dundee
The University of Edinburgh
Edinburgh Napier University
University of Glasgow
GCU Glasgow Caledonian University
Heriot-Watt University
The Glasgow School of Art
University of the Highlands and Islands
Robert Gordon University Aberdeen
University of St Andrews
University of Strathclyde Glasgow
UWS University of the West of Scotland
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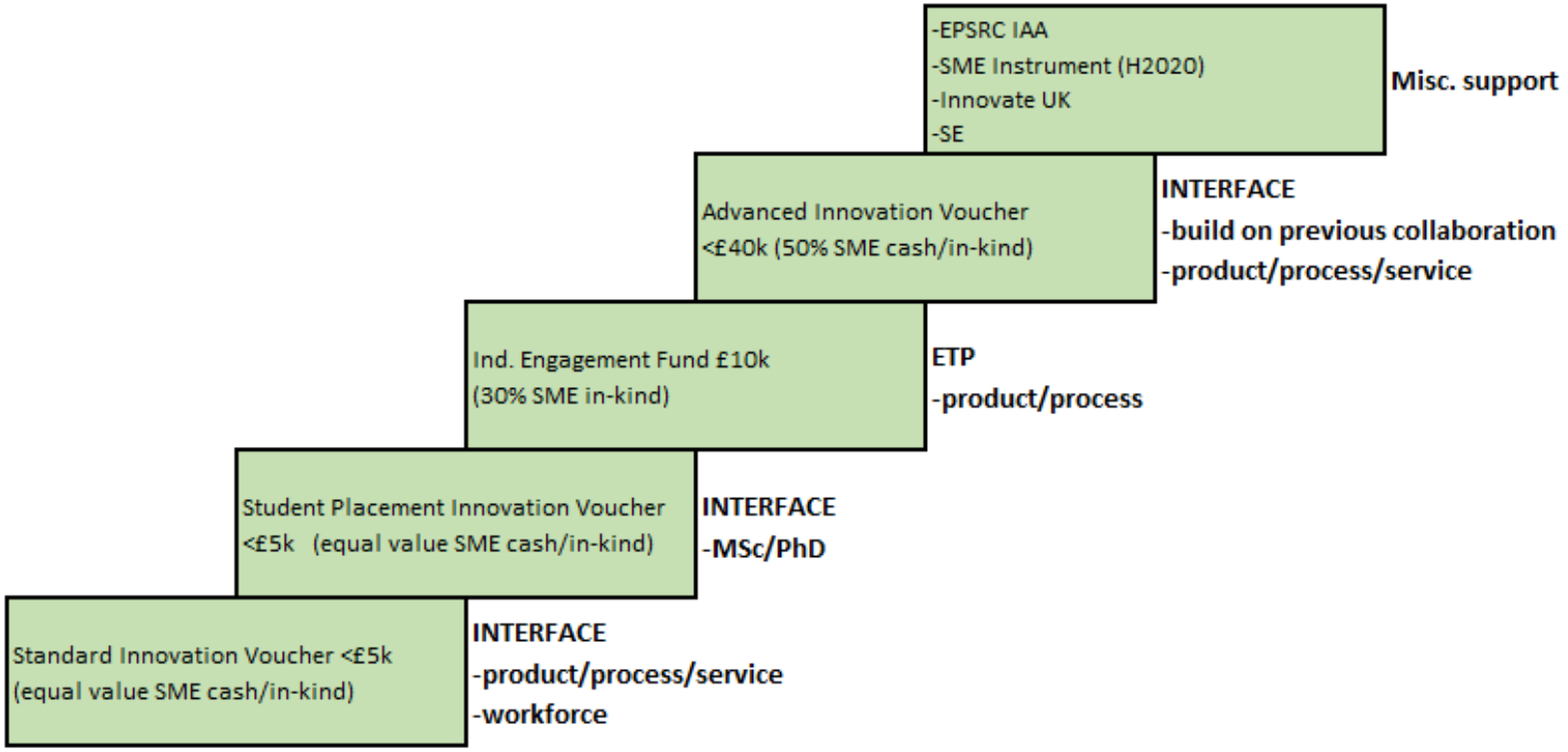
Funding escalator



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Interface

- Connects industry to all of Scotland's universities, research institutes and colleges
- Based regionally throughout Scotland and will help match you to academic expertise
- Supports R&D activity leading to the creation and development of new products, services and processes.
- 2017-2018 saw >£750k of Innovation Voucher funding from Interface
- <5% went to the Energy sector!

Interface
The knowledge connection for business

MATCHING YOUR
BUSINESS TO THE RIGHT
ACADEMIC EXPERTISE

energy
technology
partnership

Interface

Funding options include:

Standard Innovation Vouchers
Up to **£5,000** of funding aimed at encouraging new business and academic partnerships. Businesses can also apply together to pool their vouchers to solve a common issue.

Innovation Voucher - Student Placement
Up to **£5,000** to fund a PhD or Masters student who will work within an organisation on a clearly defined project.

Advanced Innovation Voucher
Up to **£20,000** of match funding to encourage sustained relationships with academia or for those companies who are beginning their collaborative journey .

https://interface-online.org.uk/

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ETP – Knowledge Exchange Network

Support the Scottish Government in meeting its targets for the energy sector

Increase the innovation capacity of SMEs in low carbon

Improve industry access to academic capability

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KEN Support

Industry Engagement Fund	• Small knowledge exchange projects • Free to Scottish SMEs • Academic time, travel, consumables, prototypes
Access to resources	• 700 researchers • Collaborations and alliances • Over 40 world-class facilities within the SEL and beyond
Research funding	Support with applications to funding, including • EU funding eg Horizon 2020 SME Instrument • SE grants eg SMART, R&D grants • etc

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ETP-marine theme

Marine Energy is one of seven themes supported within KEN

Marine energy expertise

- Resource assessment
- Resource modelling
- Tank testing
- CFD modelling
- Economic modelling and assessment
- Moorings and foundations
- Subsea engineering
- Machine design
- Array design
- Environmental impact modelling

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ETP – industry engagement fund

- KENIII – open from April 1st
- £525k budget for small knowledge exchange projects with ETP universities
  - Scottish SME
  - Low carbon “commercialisable” product / process
  - Innovative
  - SME >30% contribution to project (knowledge exchange)
  - University partner
- <£10k per project (TBC)
- Quick approval
- Support with application

https://www.etp-scotland.ac.uk/

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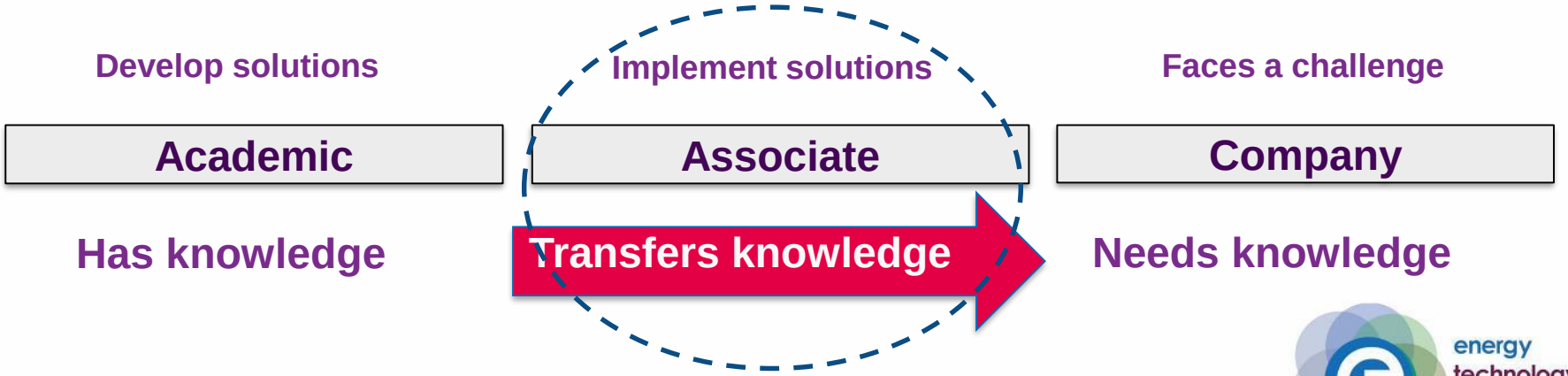
KTP

- Knowledge Transfer Partnerships (KTP)
  - three-way partnership between a business, UK University or College, and a recently qualified graduate, known as the Associate
  - 67% grant for SMEs (avg. £100k/yr projects)
  - 1-3 year projects
  - Contact regional KTP centre

Innovate UK
Knowledge Transfer Network

Scottish Funding Council
Promoting further and higher education



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https://www.ktpscotland.org.uk/

EPSRC – Impact Acceleration Accounts

- Universities with significant EPSRC funding receive Impact Acceleration Accounts to support KE and impact
- IAAs managed by the institutions allowing flexibility & creativity
  - Secondments / exchanges
  - User engagement
  - Supporting commercialisation
  - Capability development
- The awards are intended to add value to existing funding and take advantage of new or unforeseen opportunities
  - University of Edinburgh (£2m)
  - University of Glasgow (£1.7m)
  - University of Strathclyde (£1.3m)
  - Heriot-Watt University (£1m)
  - University of St Andrews (£0.6m)

EPSRC
Engineering and Physical Sciences Research Council

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IDCORE

- EPSRC and NERC Centre for Doctoral Training in Offshore Renewable Energy (IDCORE)
  - 50 engineering doctorate students over 9 years
  - Edinburgh / Strathclyde / Exeter
  - Work for company for 39 months (£45k over this period)
  - https://www.idcore.ac.uk/

Summary

- There's a lot of support available for early TRL development
  - Interface
  - ETP
  - KTP
  - EPSRC IAA
  - IDCORE
  - Other PhDs

- ETP can help you to access this

@ETPScotland

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norman.morrison@ed.ac.uk

marine@etp-scotland.ac.uk