

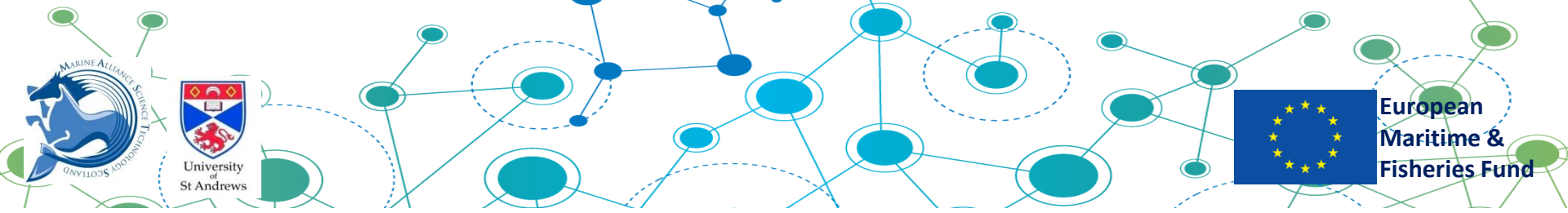


# SIFIDS

Scottish Inshore Fisheries  
Integrated Data System

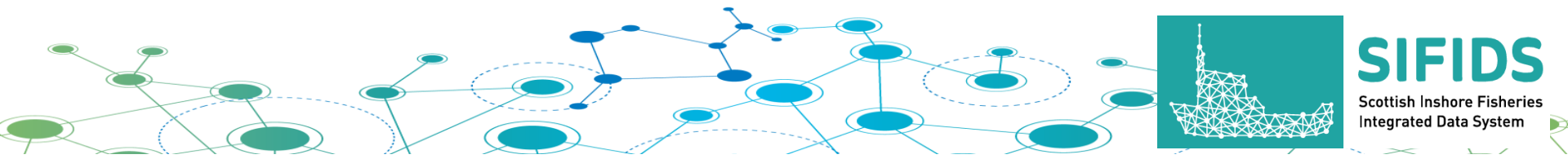
## Capturing Data in Space and Time

IFC, Inverness, April 2017



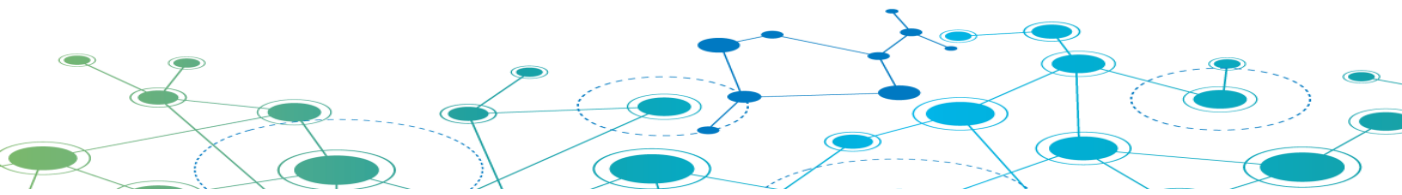


- Me : Richard Ayers
- Working in fisheries for 30 years, now at SeaScope Fisheries.
- Worked in the pot fisheries from Bridlington and around the Channel Coast



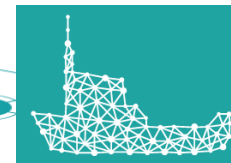
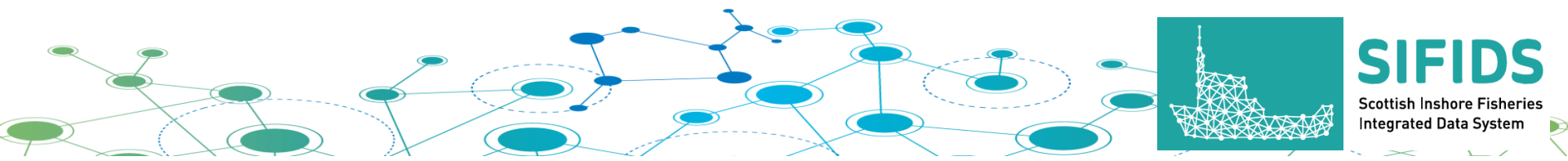


- Sub-contractors to the SIFIDS project.
- Heavily involved in observer schemes and electronic monitoring and research for the last twenty years.
- Core team have over 80 years combined experience working in a wide range of fisheries .
- Working on 4 packages within the SIFIDS project.



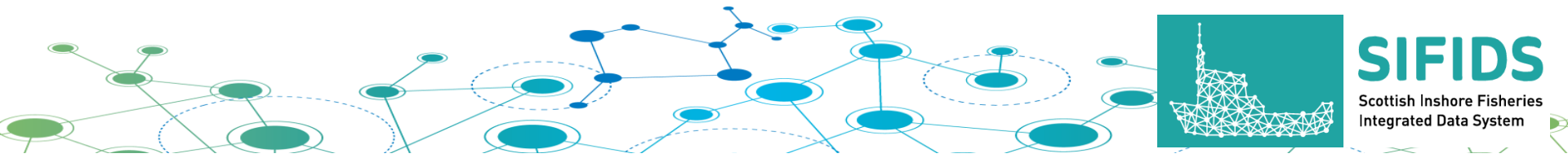
# Work Package 2A (and 2B)

- Feasibility/Pilot study, can we collect high resolution data remotely and automatically.
- Without :
  - » Impacting the way you work
  - » Overloading vessels with expensive 'soft' equipment
- With :
  - » Protecting your data
  - » Your help



# What are the benefits right now?

- Improved data = improved science
- Improved science = improved advice
- Improved advice = better management
- Better management = secure, sustainable fisheries

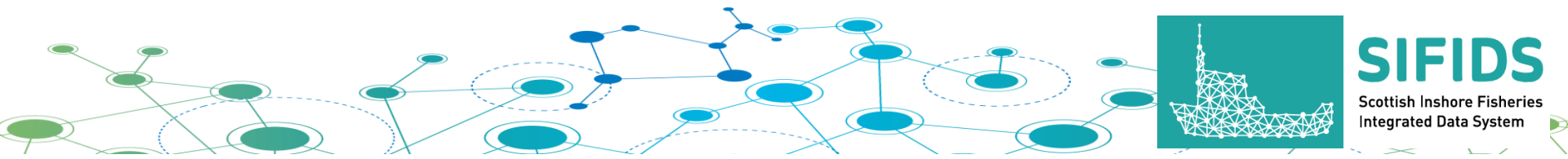


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# What are the benefits in the future ?

- Automatic data collection means less manual reporting
- High resolution data could allow more localised management
- Traceability, eventual consumers could know exactly where and when the lobster they are buying was caught, leading to better prices at first sale

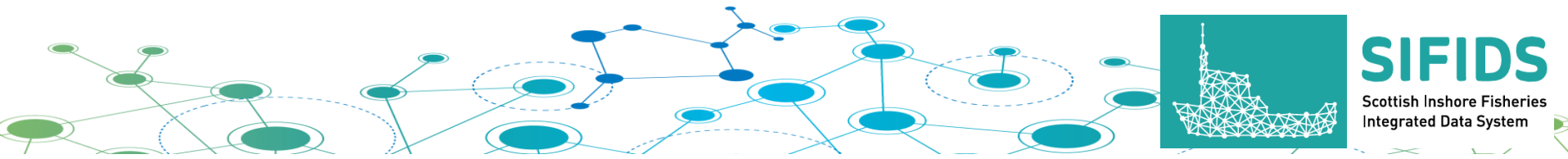
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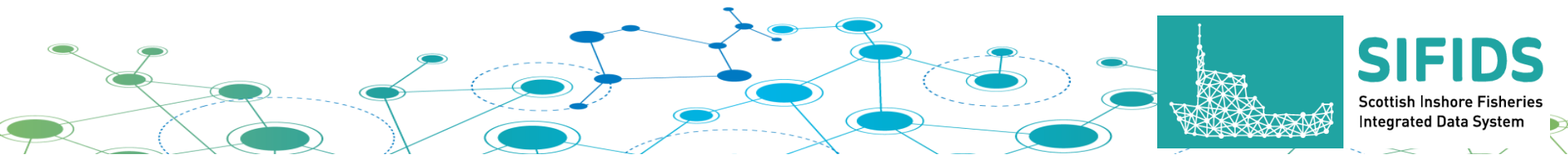
# What are the benefits in the future ?

- Verified high resolution data showing exactly where the important grounds, for each vessel, are.
  - When discussing marine planning and stock management, you and Marine Scotland have the evidence to support your fisheries.
- Analyse your own data, find new patterns and become more effective and efficient.
- Maximise financial returns for time at sea



# What data are we collecting

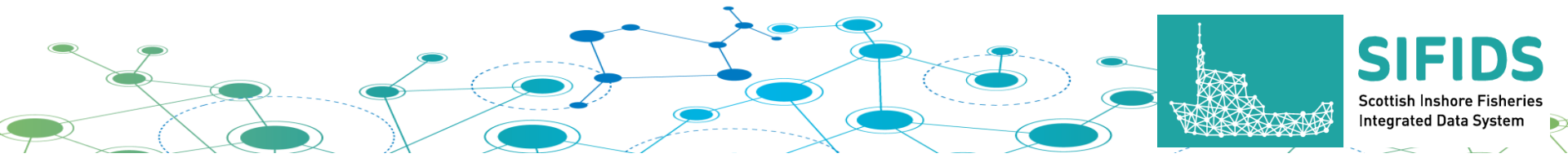
- Work package 2A is focussed on getting high precision position (GPS) data at up to once per second.
- Connecting that position and time data to other data (from the other work packages).
- Getting all that data back ashore and available.
- Without anyone having to do anything.





# Its not just another EM system

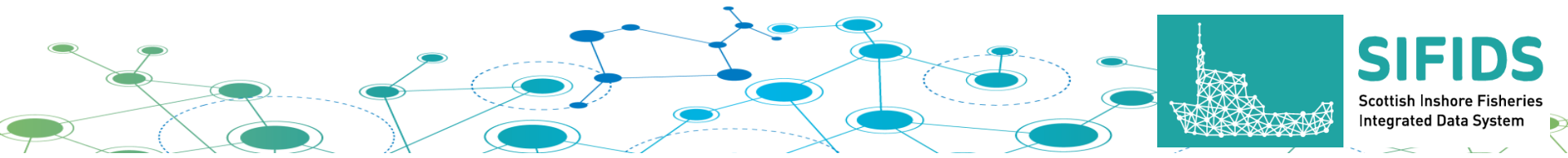
- Designed for small vessels
- Designed for scientific data collection
- Multiple sensor inputs
- Near real time data transfer
- This is the opportunity for you to get involved, it could collect data you can make use of.



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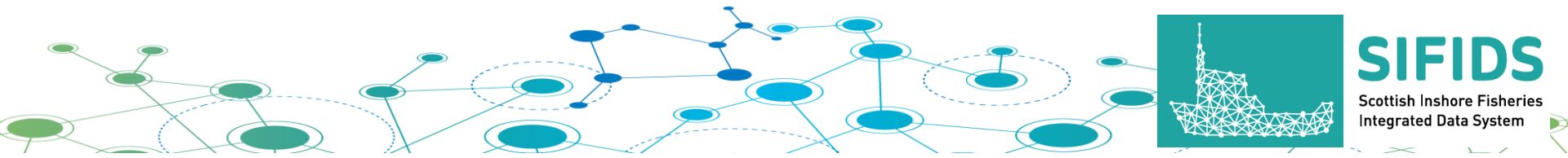
## Now 2B fits into the picture

- Work package 2B is focussed on getting effort and catch data to connect to the GPS data.
  - Where and when each string was shot and hauled?
  - How many pots were in the string?
  - What did the string catch?
- We have ideas on how to achieve this, but we are going to need your help to find the best way(s)

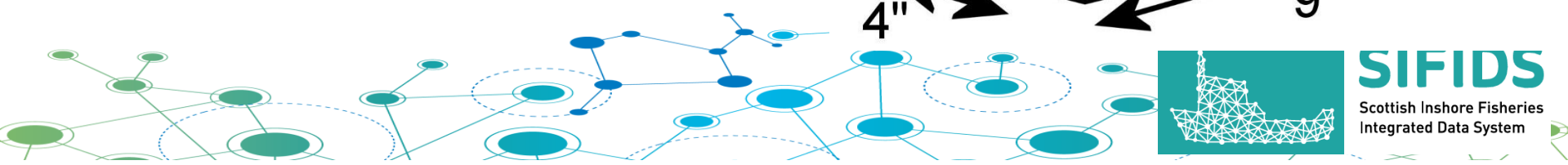
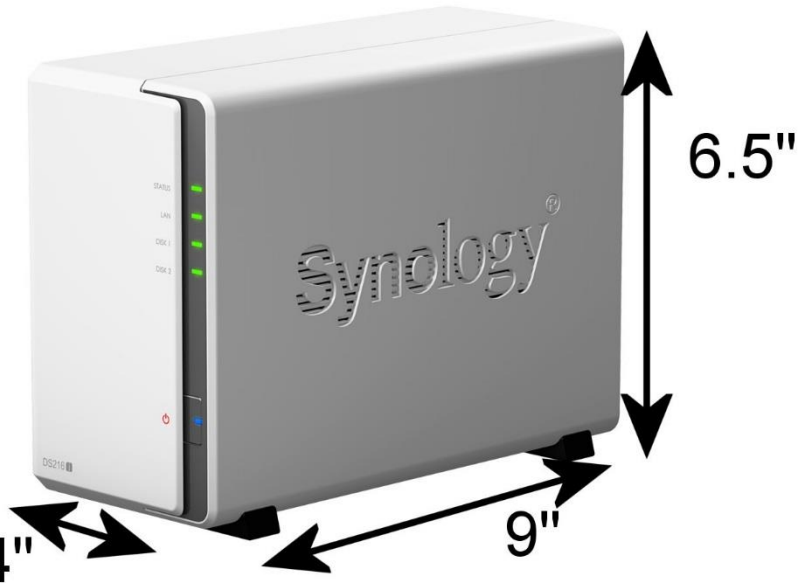


# The WP2A kit

- Small.
- Low power.
- 2 GPS loggers, data store, data communications box, some aerials and cables.
- Designed to survive.
- 3G/4G/Wi-Fi data transfer.
- Installation takes a few hours.
- Engineer on board for 1<sup>st</sup> trip or 2.

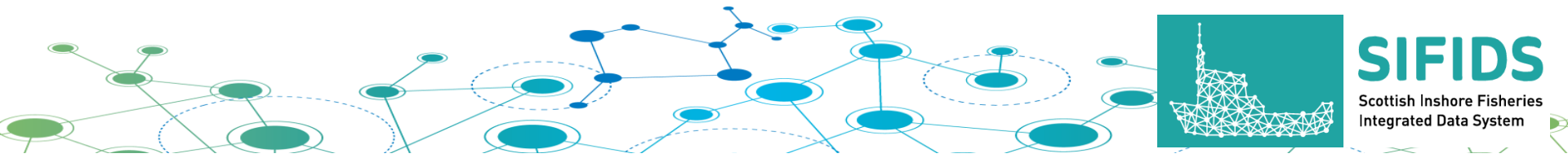


# The main kit, in pictures



# Get involved

- How do you think we could do it?
- What could the system do for you that we haven't thought of?
- Easy ways to sex crabs and lobsters quickly ?



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# Sexing crabs the scientific way



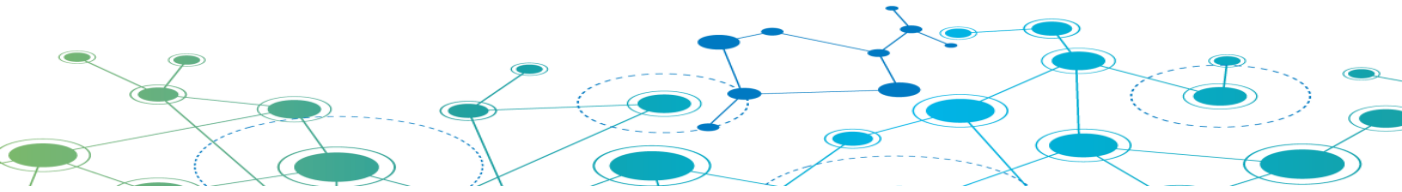
Male



Female

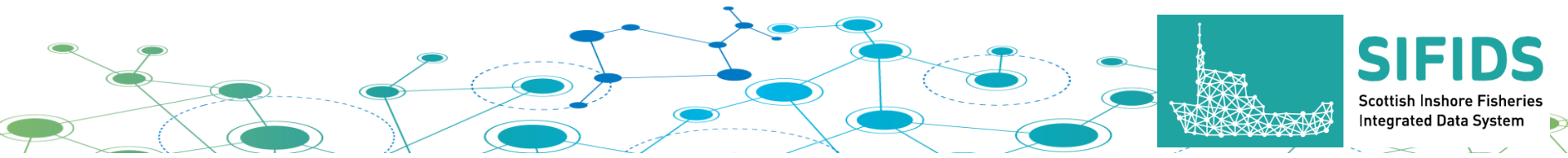


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# What happens next

- Facilitators are recruiting vessels to join the project, we need 15 vessels to trial the logging equipment.
- Project team at St Andrews are assessing our proposals, your input is welcomed.
- Field trials Spring 2018.



# Questions, Comments, Ideas, Thoughts ?

- Ask me now
- Find me later
- Talk to the facilitators
- Email any of the SeaScope team
  - [richard@seascopefisheries.co.uk](mailto:richard@seascopefisheries.co.uk)
  - [grant@seascopefisheries.co.uk](mailto:grant@seascopefisheries.co.uk)
  - [guy@seascopefisheries.co.uk](mailto:guy@seascopefisheries.co.uk)
- Thank you for listening

