- Established September 2017 in Ireland

Lagoons workshop funded by ESA-FutureEarth

17	14	12	1	2
Attendees	(Inter)national research programmes & institutes	Universities	SME	Lagoon networks

- Ongoing activities aim to:
  - Continuously grow the network (i.e. 'Lagoons Forum')
  - Increase our visibility (website, Twitter, networking and event attendance)
  - Develop a global lagoons (meta)database to identify all relevant research activities, as well as data gaps
 - Produce a White Paper

Why lagoons?

Coastal lagoons are resource-rich and hosts to a multitude of co-located human activities

In 2017, nearly 40% of the world's population lived within 100 km from the coast

As coastal populations are continuously rising, so are their impacts on coastal ecosystems

Coastal lagoons are particularly vulnerable to the effects of climate change due to their setting
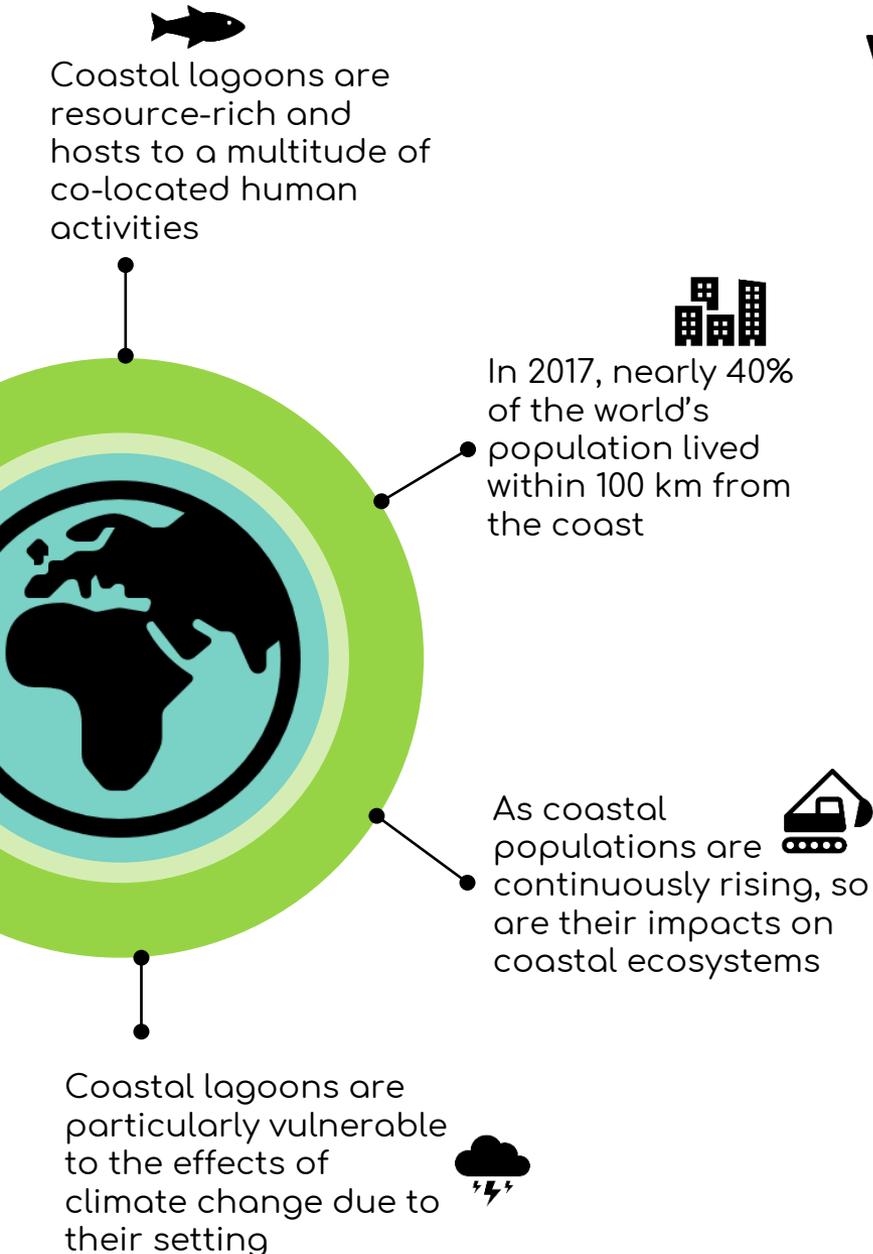
Why L4L?

- Lack of centralised inventory & global coordination

- Knowledge and data gaps

- Potential of EO in (contributing to) the design of holistic management strategies
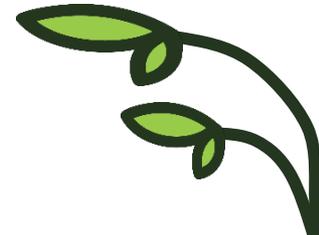
"A world where healthy coastal lagoon ecosystems are recognised as both a core value for societies and a requirement for achieving a global green economy, blue growth and societal well-being"

"Coordinate action towards the co-design and co-development of holistic, innovative, multidisciplinary approaches to coastal lagoon management in order to support sustainable development of flourishing societies that become better adapted to a fast-changing world"

Coordination
Collaboration

Holistic

Innovation

Multidisciplinarity

Sustainability

Flourishing
societies

Adaptation to
change
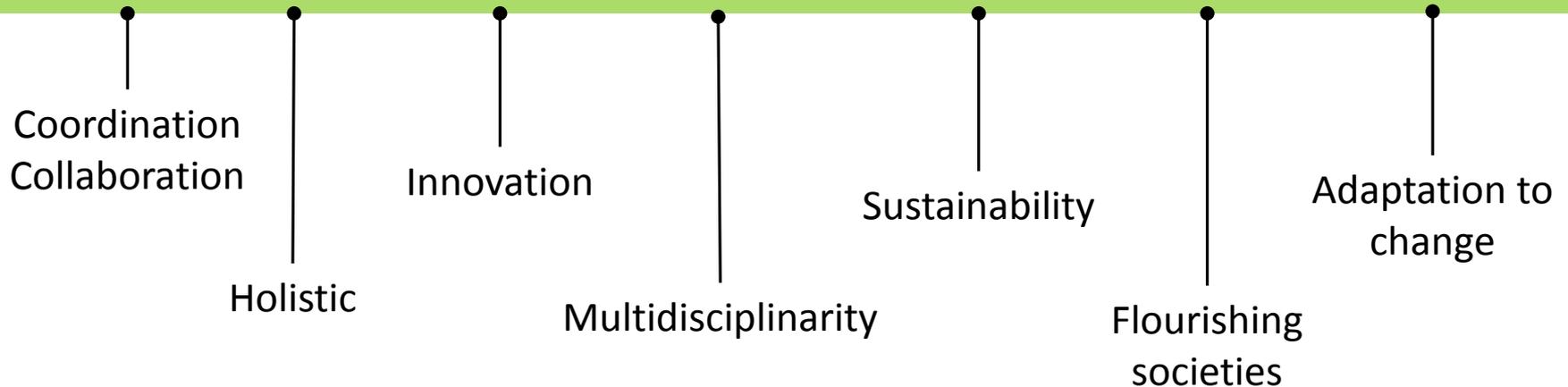
Objectives towards realising our vision

Identify experts and coordinate **collaboration**

Comprehensive, global **inventory** research activities and data

Identify knowledge and data **gaps**

Evaluate use of **new technologies** for observation, data management, processing and analysis, and data sharing

Support research activities

Identify/Develop **best practices** in coastal lagoon management

Foster **linkages** between stakeholders and policy-makers

Develop and deliver **capacity**, and facilitate KTE to inform citizens, enable policy-makers, and better-equip researchers and practitioners

Major questions to answer

What features render lagoons vulnerable to physical, ecological and human disturbance from global change?

Can EO help derive new (or improve existing) indicators used to evaluate & monitor lagoon systems?

Can EO support international conventions & agreements towards improving sustainable development in lagoons?

Propose a current and future regime prediction scheme suitable for the sustainable use and management of lagoon resources

- Extensive literature review (so much good science out there) → collation of all relevant studies
- Link social and physical sciences
- Conduct multidisciplinary research
- KTE
- Improve modelling
- Improve data collection (e.g. optimal sampling, standardise protocols, etc.)
- Explore new methods and tools (e.g. EO)
- Understand tipping points

- Extensive literature review → collation of all relevant studies
- Use questionnaires with EO and non-EO scientists
- Organise expert workshops
- Coordinate relevant research activities
- Source validation data

- Coordination and international collaborations
- Inclusive, participatory research

Benefits from realising our objectives and mission

For local communities

- Informed citizens
- Become part of the decision process (empower)
- Increased societal well-being
- Access to healthy ecosystem services, including clean water and a clean environment

For local economies

- Sustainable growth with a long-term vision
- Support green economy
- Support blue economy and blue growth
- Healthy ecosystem services

For the environment

- Sustainable resource use
- Protection of natural biodiversity
- Protection of unique ecosystems
- Minimise disturbance that can lead to tipping points

SUSTAINABLE DEVELOPMENT GOALS

Benefits from realising our objectives and mission

For the Lagoons Forum

o Become part of a wide, international, multidisciplinary network

o Advancement of science through collaborations across disciplines

o Knowledge Transfer and Exchange (KTE)

o Benefit from using a centralised global coastal lagoon inventory to:

  o Know who your peers are

  o Find new research partners

  o Use existing datasets

  o Share your datasets

  o Participate in research funding proposals

  o Easily identify data and knowledge gaps for future research agenda development

We hope you will join us!

Thank you for your attention

Eirini Politi e.politi@dundee.ac.uk
www.lagoonsforlife.com
@Lagoons4Life