

# WP2 – Joint Observation strategy for the Land-Sea Interface

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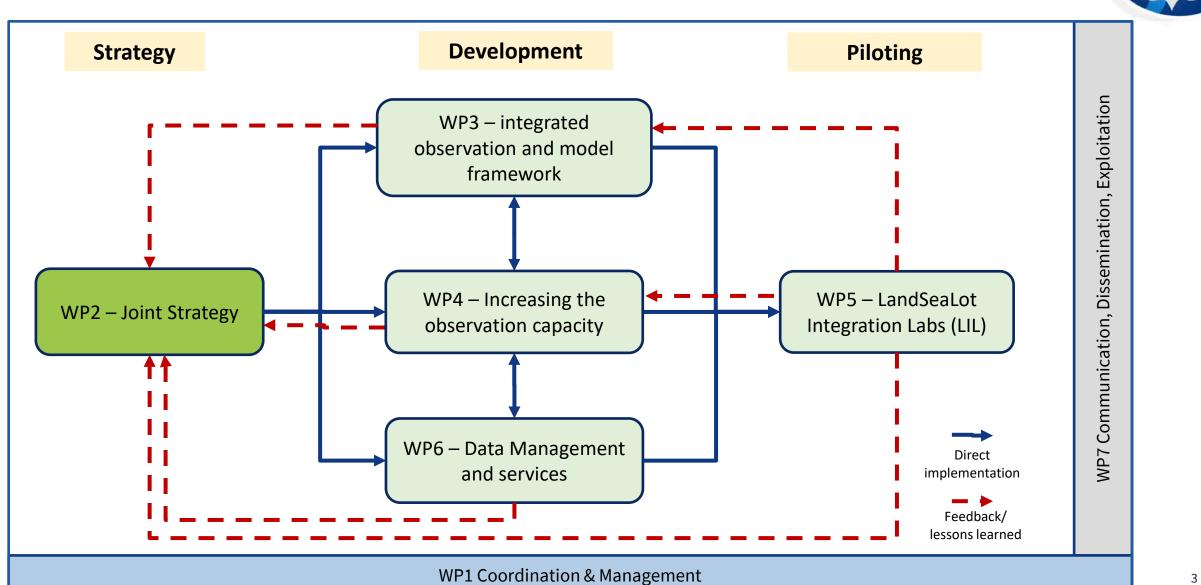
LandSeaLot has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No 101134575. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



To co-create, between key observation providers, the LandSeaLot Common Observation Strategy (LCOS) for the LSI:

- To Foster the transition from fragmented community-based observations to a common strategy and its subsequent implementation plan
- Build upon communities of practice, which will identify observation gaps to be jointly filled in
- Appropriate mechanisms for incorporating the outcomes and findings of Projects activities (WP3, 4, 5 and 6)
- Ensuring the commitment of parties and the long-lasting legacy of the project outcomes

### WP 2 and its position in LSL





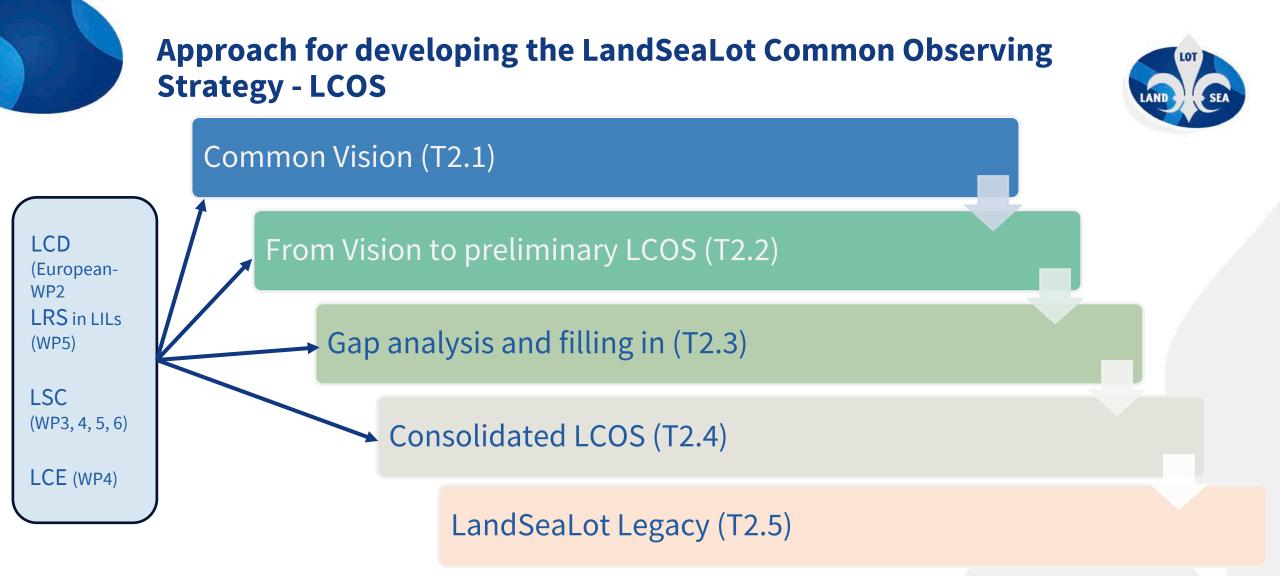


### **Contributions & Efforts**



WP2	Joint Observation Strategy for the Land-Sea	5 - COV	65.50	1	48	D2.1 - Towards a common strategy and
	Interface					joint services
						D2.2 – Joint gap analysis
						D2.3 - Consolidated strategy &
						implementation plan (incl. Ontology)
						D2.4 – LandSeaLot legacy

Person Month (PM)		GEM	cov	DLT	HEREON	IFR	SSBE	CNR	USTIR	SMHI	CNRS	MARIS	HCMR	TEM	PML	BC	SYKE	ULI	ETT	NORCE	Total
w	P2 Joint Observation Strategy for the Land-Sea interface	15,5	15,0	7,8	7,0	6,0	4,0	2,7	2,0	1,0	1,0	0,7	0,7	0,7	0,7	0,4	0,3				65,5



- LSC: LandSeaLot Science Community forum
- LCD: LandSeaLot Co-Designer forum
  LPS: Local and Persional Stakeholder
- LRS: Local and Regional Stakeholders
- LCE: LandSeaLot Citizen Empowerment forum



### **WP2 Actions**



- Task 2.1: Gathering communities around common objectives (M1-M14)
  - Lead: DLT
  - Participants: GEM, COV, IFR, HEREON, SSBE, TEM, CNR, USTIR, CNRS, SMHI, MARIS, HCMR, PML, BC, SYKE
- Task 2.2: Preliminary common strategy and joint services (M6-M25)
  - Lead: COV
  - Participants: GEM, DLT, IFR, HEREON, SSBE, TEM, CNR, USTIR, CNRS, SMHI, MARIS, HCMR, PML, BC, SYKE
- Task 2.3: Joint gap analysis / landscape analysis (potential for innovation) (M3-M37)
  - Lead: **GEM**
  - Participants: DLT, COV, HEREON, IFR, SSBE, USTIR, BC, PML, CNR, SMHI, CNRS, SYKE
- Task 2.4: Consolidated Strategy and Implementation plan (M15-M48)
  - Lead: IFR
  - Participants: COV, GEM, DLT, HEREON, SSBE, TEM, CNR, USTIR, CNRS, SMHI, MARIS, HCMR, PML, BC, SYKE
- Task 2.5: Securing LandSeaLot legacy (M30-M48)
  - Lead: **GEM**
  - Participants: DLT, COV, IFR, HEREON, SSBE, SMHI, TEM, CNR, USTIR, BC, MARIS



## Task 2.1 - Gathering communities around common objectives A common vision for the LSI observation



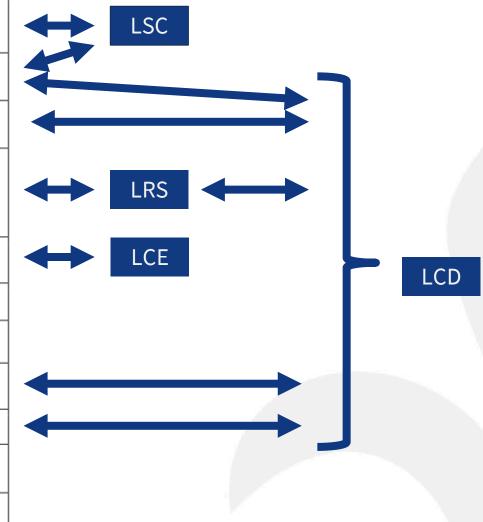
Lead: **DLT** 



### LandSeaLot Co-Designer Forum - LCD



SG.1	<b>Researchers &amp; data scientists and managers:</b> Scientists ( <i>in situ</i> /satellite observation, modelling, research) bridging LSI communities, including data scientists. Data managers working in marine and freshwater domains.
SG.2	<b>Research Infrastructures:</b> The LSL RI partners (JERICO-RI, DANUBIUS-RI, ICOS-ERIC), other relevant environmental RIs (eLTER, EMBRC, Lifewatch, AQUACOSM), and the ENVRI/BeeRI.
SG.3	Long-term EU marine data services & relevant EU initiatives: Copernicus Marine, EMODnet, SeaDataNet, EuroGOOS
SG.4	<b>Users &amp; managers of the land-sea environment:</b> Delta & estuaries management organisations, Protected Area managers, Port Authorities, fishermen & aquaculture professionals, agricultural communities in delta areas affected by saltwater intrusion and reduction of freshwater availability (e.g., farmers), communities affected by the loss of land (e.g., coastal tourism destination management organisations and operators, inhabitants of urban areas exposed to extreme events), local NGOs.
SG.5	Citizen science leaders & multipliers: Citizen scientists, citizen science networks and organisations, TEM associated marinas, teachers (train-the-trainers)
SG.6	Innovators (SMEs): Producers and/or distributors of low-cost remote sensors and technologies
SG.7	Mission Lighthouses & Blue Parks initiatives: CSA supporting Mission Lighthouses and Blue Parks initiatives
SG.8	Water quality reporting organisations: EEA, Regional Sea Conventions (i.e., OSPAR, HELCOM, Black Sea Commission, Barcelona Convention), national Member States reporting to MSFD & WFD
SG.9	European Space Agency (ESA)
SG.10	EU & international policy and governance bodies: European Commission (DG ENV, DG MARE, DG DEFIS), International Ocean Commission
SG.11	International ocean observing efforts & UN Agenda 2030 initiatives: GEOSS, UN Decade of Ocean Science and UN Decade of Ecosystem Restoration





## LandSeaLot Co-designer Forum - LCD

#### **European stakeholders**

- ESA
- Research Infrastructures: DANUBIUS-RI, JERICO, ICOS-ERIC, ENVRI-BeeRI
- COPERNICUS services (Marine, land, climate, emergency)
- OSPAR/HELCOM
- EEA
- EuroGOOS
- 4Sea
- EDITO Model Lab / Infra

#### Local and Regional stakeholders in LILs (LRS)- managed through WP5

- Political actors
- Ports
- Marinas
- Citizen environmental associations



### LandSeaLot Community Fora

#### LandSeasLot Science Community forum - LSC

- LandSeaLot In-situ observation Experts
  - <u>DANUBIUS</u>: GEM, DLT, HEREON, CNR, HCMR
  - JERICO: COV, IFR, SYKE, DLT, HEREON, CNR, CNRS, HCMR, SMHI
  - <u>ICOS</u>: NOR, CNR
  - <u>European Data repository</u>: SSBE

#### • LandSeaLot Satellite Experts

- USTIR, PML, BC, HEREON
- COV, CNR, IFR, SYKE
- LandSeaLot Modelling Experts
  - HEREON, +ATL, IFR, DLT, HCMR, CNR, ULI

#### LandSeasLot Citizen Empowerment forum - LCE

- Key partners: TEM, SMHI, IFR, COV, MARIS
- Possible contributors in LILs (WP5)

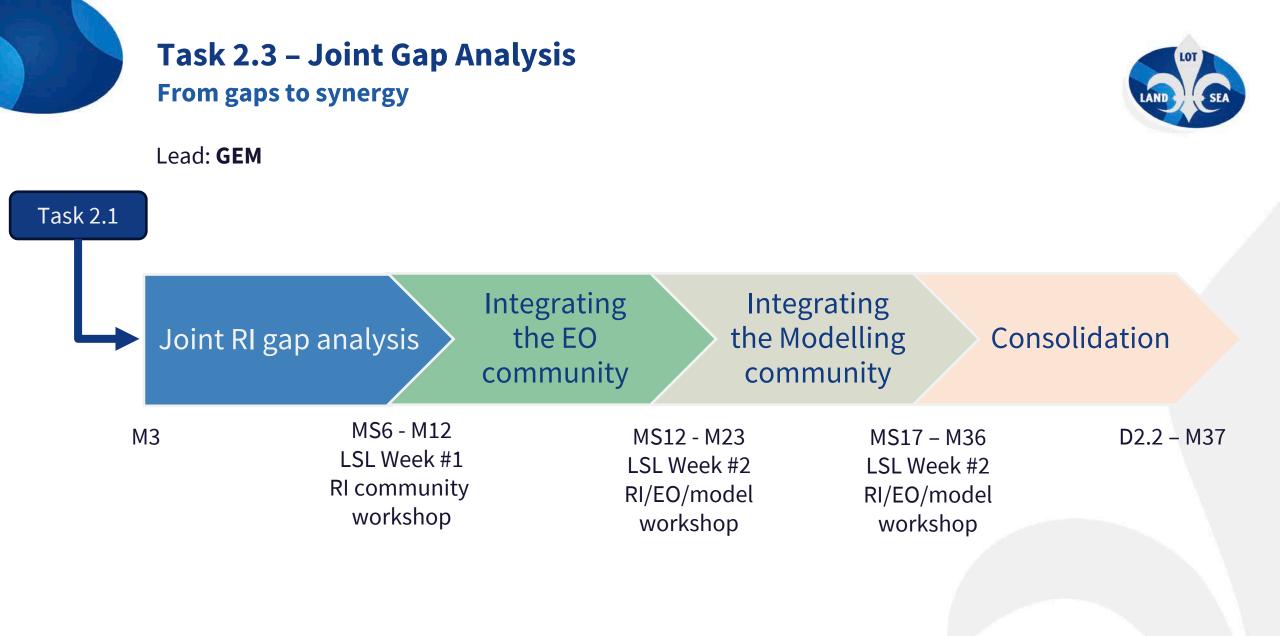


### Task 2.2 – Preliminary common strategy & Joint services From a vision to LCOS v1

Lead: COV









### Deliverables



Deliverable No	Deliverable Name	Work Package	Lead Beneficiary	Туре	Dissemination Level	Due Date (month)
D2.1	Towards a common strategy and joint services	WP2	5 - COV	R — Document, report	SEN - Sensitive	24
D2.2	Joint gap analysis	WP2	4 - GEM	R — Document, report	PU - Public	37
D2.3	Consolidated strategy & implementation plan (incl. Ontology)	WP2	3 - IFR	R — Document, report	PU - Public	48
D2.4	LandSeaLot legacy	WP2	4 - GEM	R — Document, report	PU - Public	48





Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
1	LSC, LCD, LCE and LRS established	WP2, WP4, WP5	1-DLT	First forum meetings conducted (MoM)	5
2	Project website	WP7	14-SSBE	Public URL available	6
3	Catalogue of low-cost technologies and communities	WP4, WP5	7-SMHI	List of low-cost technologies and communities raised	6
4	Establishment of the procurement process	WP4	15-ETT	Procurement procedure established and to be followed	6
5	Inception Plan presentation to regional stakeholders in LILs (in person/virtual)	WP2, WP5	3-IFR	Minutes of meetings in the ILs with local stakeholders	8
6	LandSeaLot common vision between communities achieved	WP2, WP5	1-DLT	Minutes of Meeting	10
7	First recommendation on interoperability of in situ observation systems	WP3	2-HEREON	Minutes of Meeting with land-sea in situ community	10
8	LandSeaLot-week#1 - 1st Integration Workshop	WP7, WP1 WP2, WP4, WP5, WP6, WP3	1-DLT	Minutes of the LandSeaLot-Week#1	12

## **Contributions of WP2 to Expected outcomes**



#### Expected outcomes (short-term impacts)

- E.O.3: Enhanced networking between the relevant observation communities (*in situ*, airborne, satellite, citizen science, etc.) and training of the citizen science community in the approach to the observation of the land-sea interface making use of newly developed low-cost technology
- Networking through LSC, LCD, LCE and through a series of integrated workshops involving all fora, throughout WP2, and in tight collaboration with WP4, 5, 7 and 3.
- E.O.4: Strengthened coordination between EO communities in the land and marine domains and between the *in situ* data collection, satellite and modelling ocean communities
- Elaboration of the LandSeaLot Common Observation Strategy (D2.3) and long-term legacy

#### Expected impacts (extended and longer term impacts)

- E.I.1: innovative governance models enabling sustainability and resilience notably to achieve better informed decision-making processes, societal engagement and innovation
- A joint LCOS providing a common roadmap to relevant parties for contributing, in a consistent and efficient manner, to the observation of the LSI
- E.I.2: Areas related to the European Green Deal benefit from further deployment and exploitation of environmental observation data, products and "green" solutions
- The co-design of the LCOS with Copernicus services and ESA (WP2) will ensure the strong impact of the project on these organisations/initiatives (D2.3)
- E.I.3: A strengthened Global Earth Observation System of Systems (GEOSS) (GEO/EuroGEO, UN Decade Ocean and ecosystem restoration)
- Best practices summarised in the LandSeaLot legacy (D2.4) and policy briefs

E.I.4: Strengthened EU and international science-policy interfaces to achieve the SDGs

• To be clarified

# What next

### Action plan until summer



Task	Action	What	Who	Deadline
2.1	Stakeholder groups	Send contact to WP2 Name, organisation, position	All LSL partners	April 15
2.1	Mobilisation material	1-pager (to be adapted to SGs), PPT	Julia, Dominique, Jos – with inputs from WP4 (LCE) and WP5 (LRS)	April 20
2.1	Bilateral meetings with LCD stakeholders	Mobilising, committing, working together	WP2 to organise - with ad-hoc involvement	End of April
2.1	Elaborating the common vision	Questionnaire/survey	Task 2.1 partners with support of WP4 and 5	May 31
2.3	Gap analysis	Kick start planning of the gap analysis	Adrian/Irina and Task 2.3 partners	>May

Let's observe together!

Visit landsealot.eu Be part of the conversation in  $X \square$ 



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