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SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

Metadata Catalogues (WP4, WP5)

Review on catalogue content, connected data centres, progress made since the beginning of SDN2

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Pan-European Metadata Catalogues

Overall Objective

- SeaDataNet maintains and operates a metadata **discovery service** aiming to facilitate the marine data searching, location and retrieval



6 European catalogues maintained by NODCs

The service provides an overview of the Marine Organizations in Europe and their involvement in scientific cruises, data collection, marine projects:

- **EDMO** : European Directory of Marine Organisations (2375)
- **CSR** : Cruise Summary Reports (51392)
- **EDMED** : European Directory of Marine Environmental Datasets (4284)
- **EDMERP** : European Directory of Marine Environmental Research projects (2772)
- **EDIOS** : European Directory of Ocean Observing Systems (16 591 series from 440 programmes)
- **CDI** : Common Data Index (1484142)



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- All SeaDataNet catalogues have been harmonised and tuned in format, syntax and semantics (common vocabularies).
- They have a common editor (MIKADO) and online CMS and online query interfaces
- The content of the directories content is compiled from national contributions, and collated in each country by the SDN partners (usually NODCs)

EDMERP

EDMO

CSR

EDIOS

EDMED

CDI

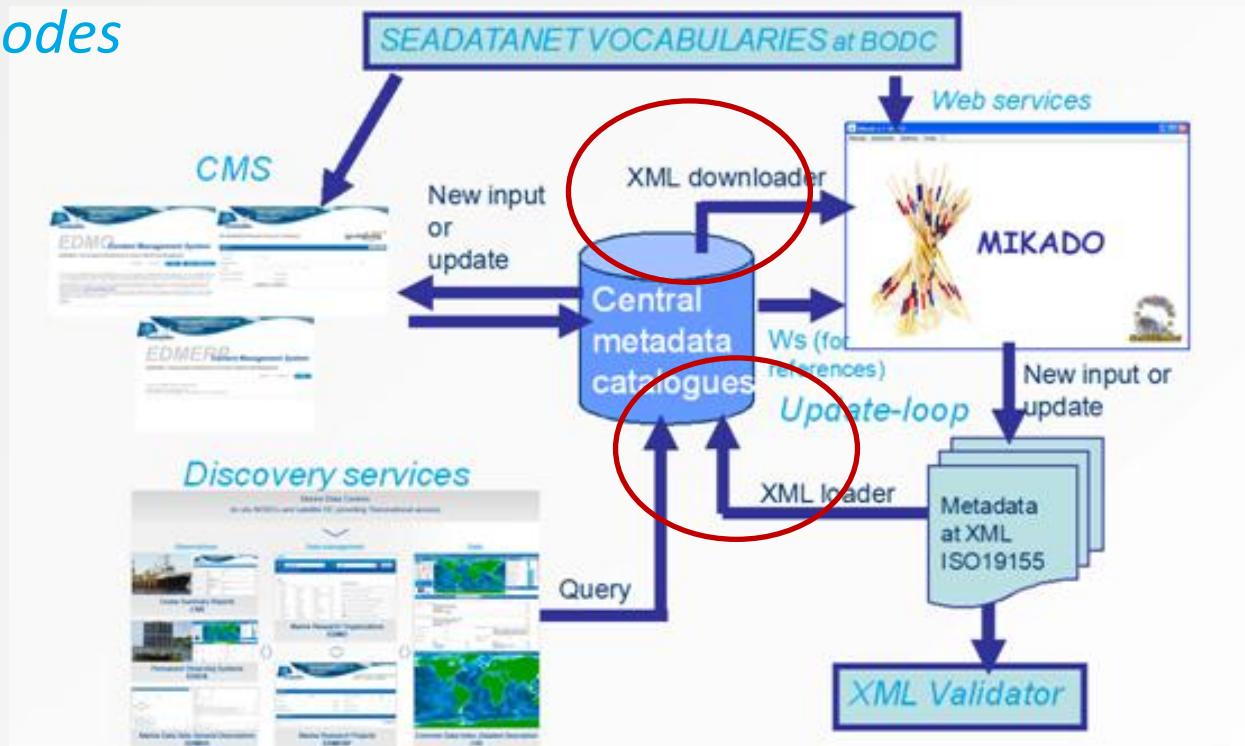


Metadata format

- In SDN-II the CDI and CSR metadata formats have been upgraded to ISO 19139 and INSPIRE compliancy, while all directories make use of the upgraded Common Vocabularies (NVS 2.0)
- For each directory the following have been defined:
 - Description of the format and XML tags
 - XML Schema (XSD)
 - XML example file
 - <http://www.seadatanet.org/Standards-Software/Metadata-formats>

Metadata maintenance workflow

Operational exchange with the central catalogues by automatic harvesting between the central portal and the data nodes





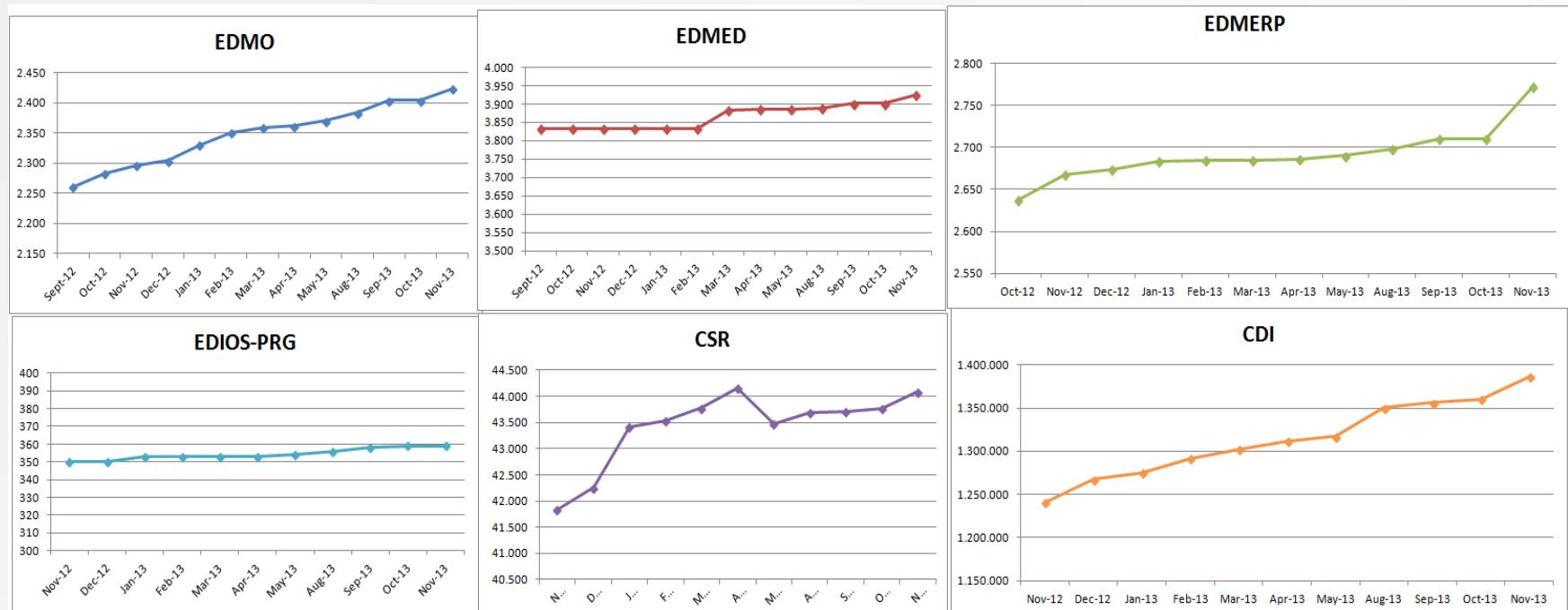
Catalogues governance and maintenance modes

Directory + pan-European coordinator	Format info	Online CMS	XML exchange from national to pan-European level	XML validation
EDMED (coordinator BODC)	Check EDMED format	No	Yes	Use MIKADO / XML editor and Schema
EDMERP (coordinator MARIS)	Check EDMERP format	Online	Yes	Use MIKADO / XML editor and Schema
CSR (coordinator BSH)	Check CSR format	Online	Yes	Use MIKADO / XML editor and Schema
EDIOS (coordinator BODC)	Check EDIOS format	No	Yes	Use MIKADO / XML editor and Schema
EDMO (coordinator MARIS)		Online	No	Not applicable

- Manuals and guidelines have been developed
- <http://www.seadatanet.org/Metadata/How-to-contribute>

Catalogues content monitoring

Indicators to monitor the increase per directory and the partners progress

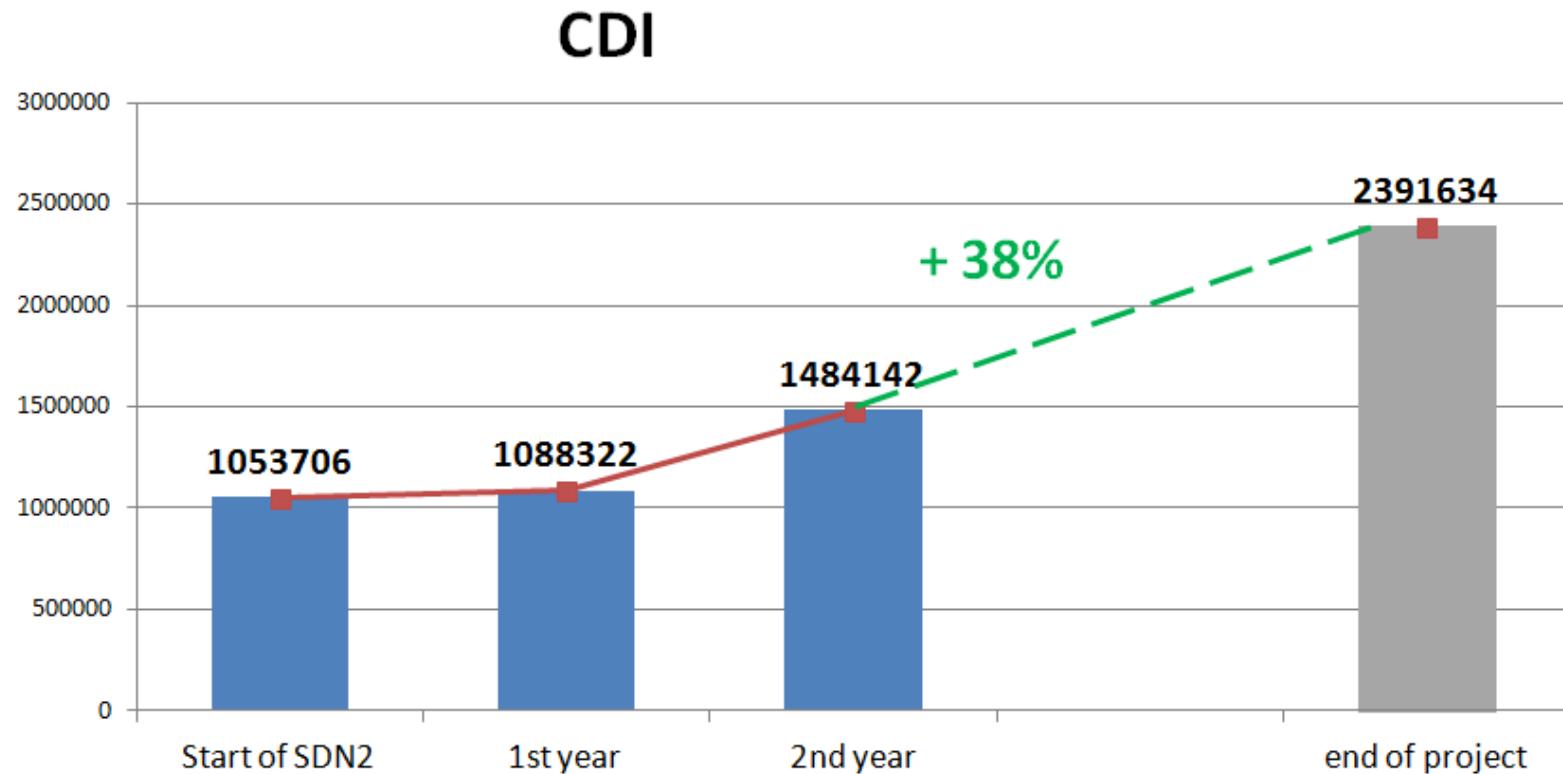




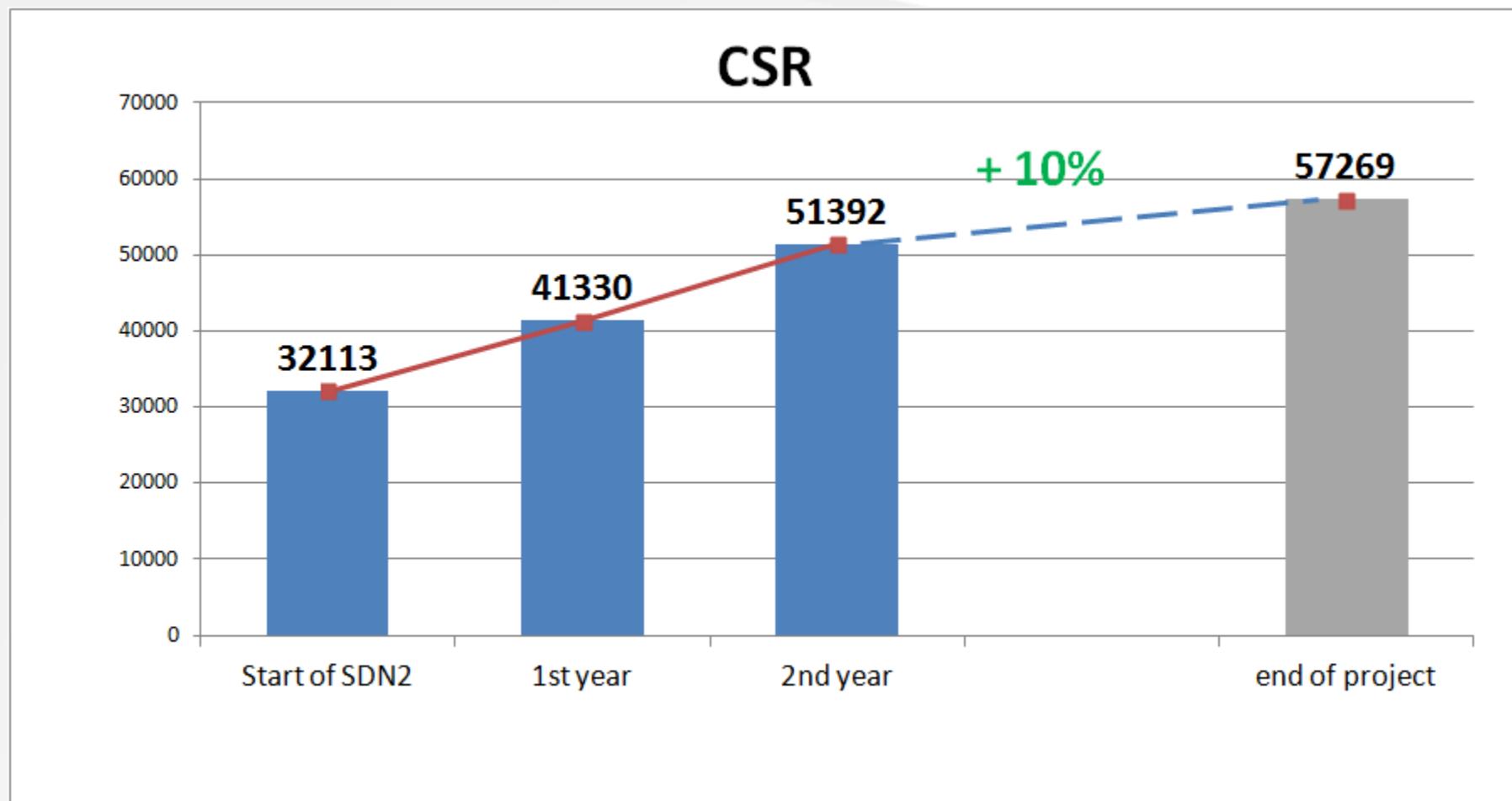
Catalogues Status

Catalogue	Start of SDN2	1st year	2 nd year
EDMO : Marine organisations	2 094	2 261	2 375
CSR : Cruises	32 113	41 330	51 392
EDMED : Data sets	3 813	3 944	4 284
EDMERP : Projects	2 338	2 617	2 772
EDIOS : Programmes	294	350	440
CDI : Data	1 053 706	1 088 322	1 484 142
Number of connected data centres	65	77	89

Expected CDIs to be delivered by end of the Project

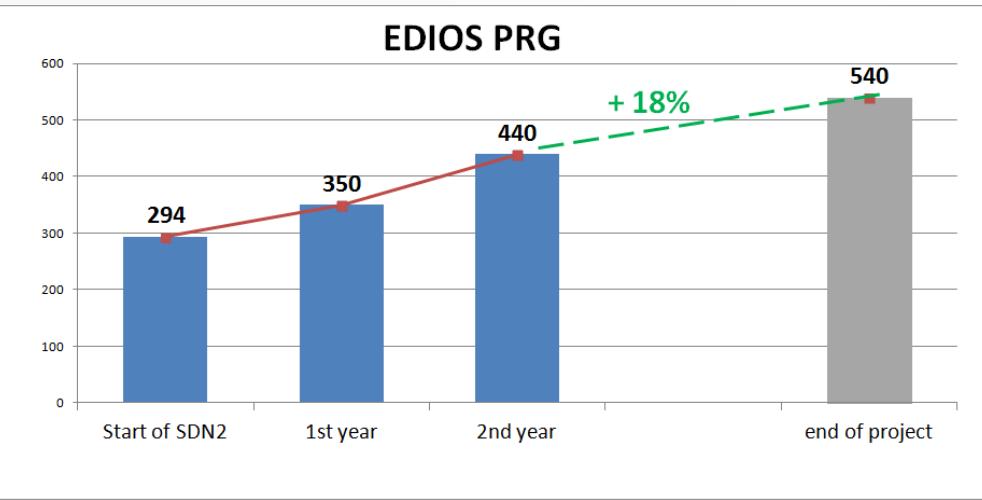
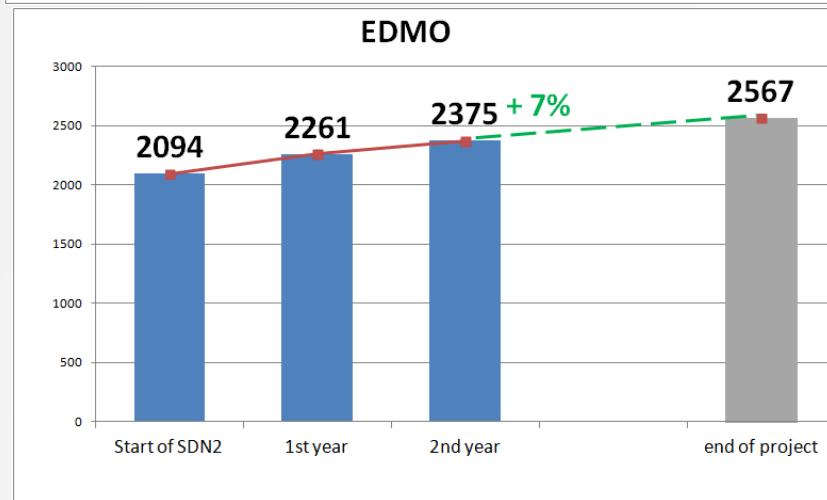
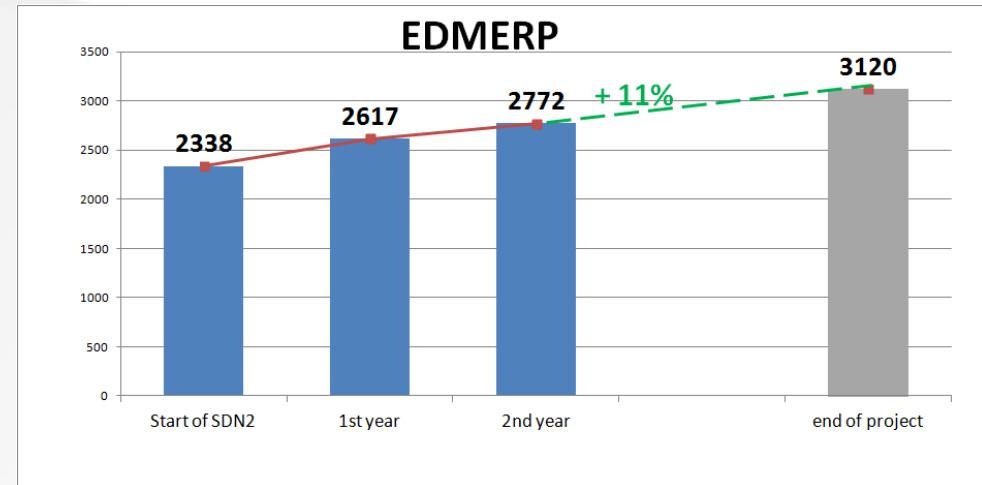
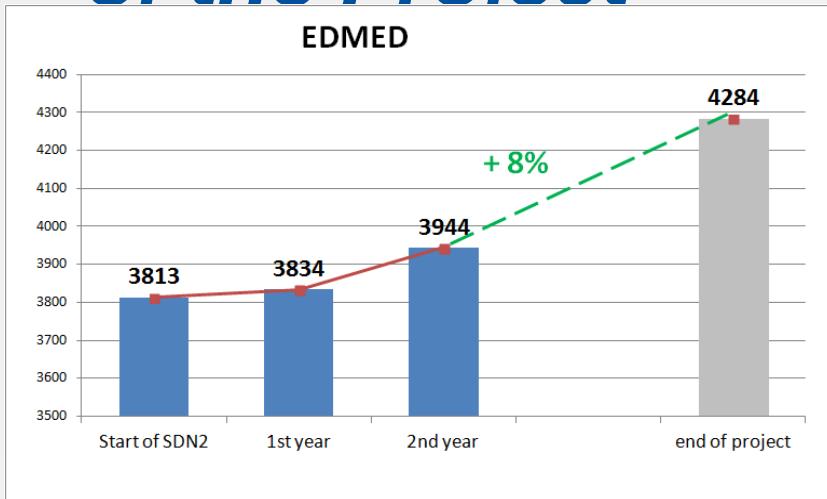


Expected CSRs to be delivered by end of the Project





Expected metadata to be delivered by end of the Project





Extension of the infrastructure

- All new data centres connected to the SDN infrastructure and have operational DM

Data centre	Country	Number of CDIs
IGEWE	Albania	21
ICES	Denmark	4986
SHOM	France	157364
UniHb	Germany	5306
CNR	Italy	118
IMBK	Montenegro	51
INRH	Morocco	208
IOPAN	Poland	18
RSHU	Russia	209
INSTM	Tunisia	867
TUBITAK-SHODB	Turkey	50
IBSS	Ukraine	4897



WP4 - Deliverables

- D 4.1: Implementation plan for the gradual installation of upgraded services per directory
- D 4.2: Pilot group of SeaDataNet national nodes operational with upgraded directory services
- D 4.3 Evaluation and revised set of instructions and documentation for installation of upgraded services
- D 4.4 All SeaDataNet national nodes operational with upgraded services for directories EDMED, EDMERP, EDIOS
- D 4.5 Central Discovery services for EDMED, EDMERP, EDIOS and CSR operational with upgraded OGC CS-W and harvesting services
- D 4.6: User manual and instructions for updating EDMED, EDMERP, EDIOS, EDMO and CSR directories



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Summary

- Active infrastructure
- Number of records in all catalogues increased
- All deliverables have been met