FOCUS ON DATA FLOWS

Country visit of the European Environment Agency (EEA) to Italy - The Eionet network in Italy (10/10/2024)

Alessandro Lotti – Eionet National Data Flow Coordinator (NDFC)
ISPRA (Italian Institute for Environmental Protection and Research)

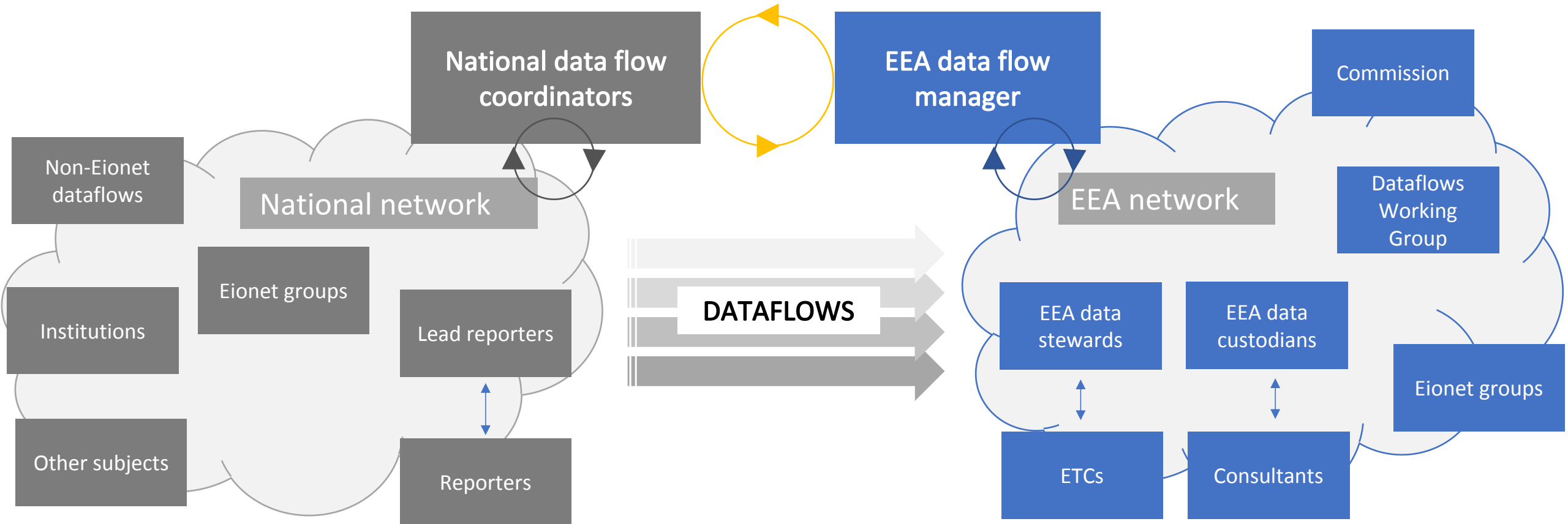# NDFC - National Data Flow Coordinator

Functions:

- In line with Art.4 of the EEA-Eionet Regulation, the overall aim of the National Dataflow Coordination Function (NDFC) is to ensure a coherent and coordinated overview of collecting, collating and sharing data between the country and the EEA to respond efficiently to the needs of the agency's work programme.

Tasks:

- Keep national overview of timeline of dataflows recorded in ROD and handled through Reportnet to monitor the timely delivery
- Keep national overview of assigned reporters through Reportnet, and be responsible for assignment of reporters to dataflows where needed (dependent upon each dataflow reporter assignment process)
- Coordinate country consultation of the annual evaluation of the Eionet Core Dataflows and offer feedback on evaluation score at annual meeting.
- Ensure business continuity and help onboard new reporters, having a clear view of the general skills and practices that are needed to report to EEA
- Contribute to the building of data sharing capacities at national level.

Eionet

ISPRA
Istituto Superiore per la Protezione
e la Ricerca Ambientale

Sistema Nazionale
per la Protezione
dell'Ambiente

Data flow

SINA - Italian Environmental Information System

ISPRA is responsible for building and managing The National Environmental Information System (SINA) (Law 132/2016 established SNPA)

SINA with the **Regional Focal Points (PFR)** and the **Regional Environmental Information Systems (SIRA)** are the network called **SINANET**

The **National Environmental Information System (SINA)** is responsible for:

- Collecting, processing and dissemination of environmental and territorial data and information

- Official data for Public Administrations

MDIAR model: Monitoring, collection and organization of environmental data and information (also through the development of indicators), environmental analysis and reporting or the structured publication of environmental data, information and assessments.
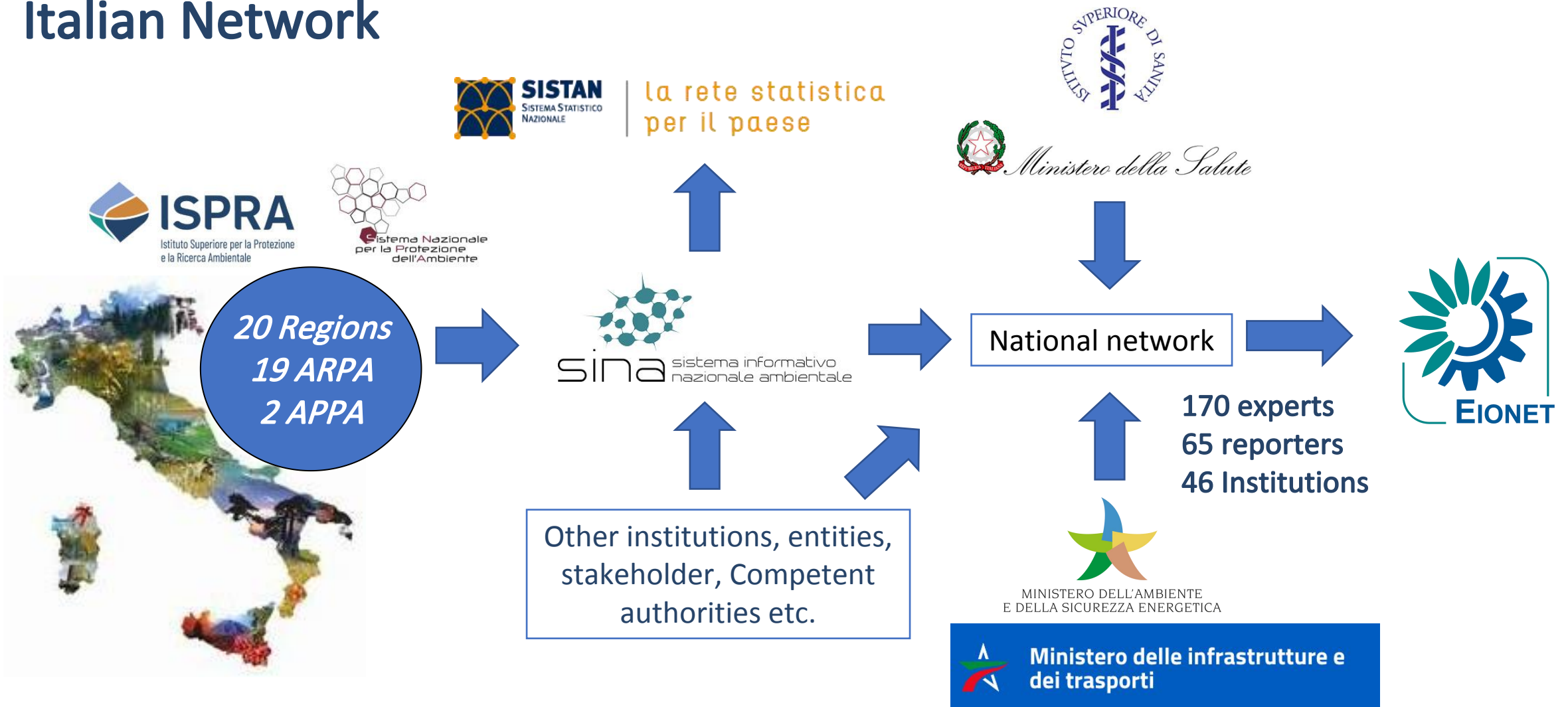
SISTAN - National Statistical System

- ISPRA is part of the **National Statistical System (SISTAN)**

- The National Statistical System (SISTAN) is the network of public entities that provides official statistical information in Italy.

- ISTAT and ISPRA are responsible for about 80% of official statistical environmental data

- ISPRA and ISTAT, within respective roles and for different purposes, carry out data production, statistical research and studies in the environmental field to support decisions for national and international public policies.
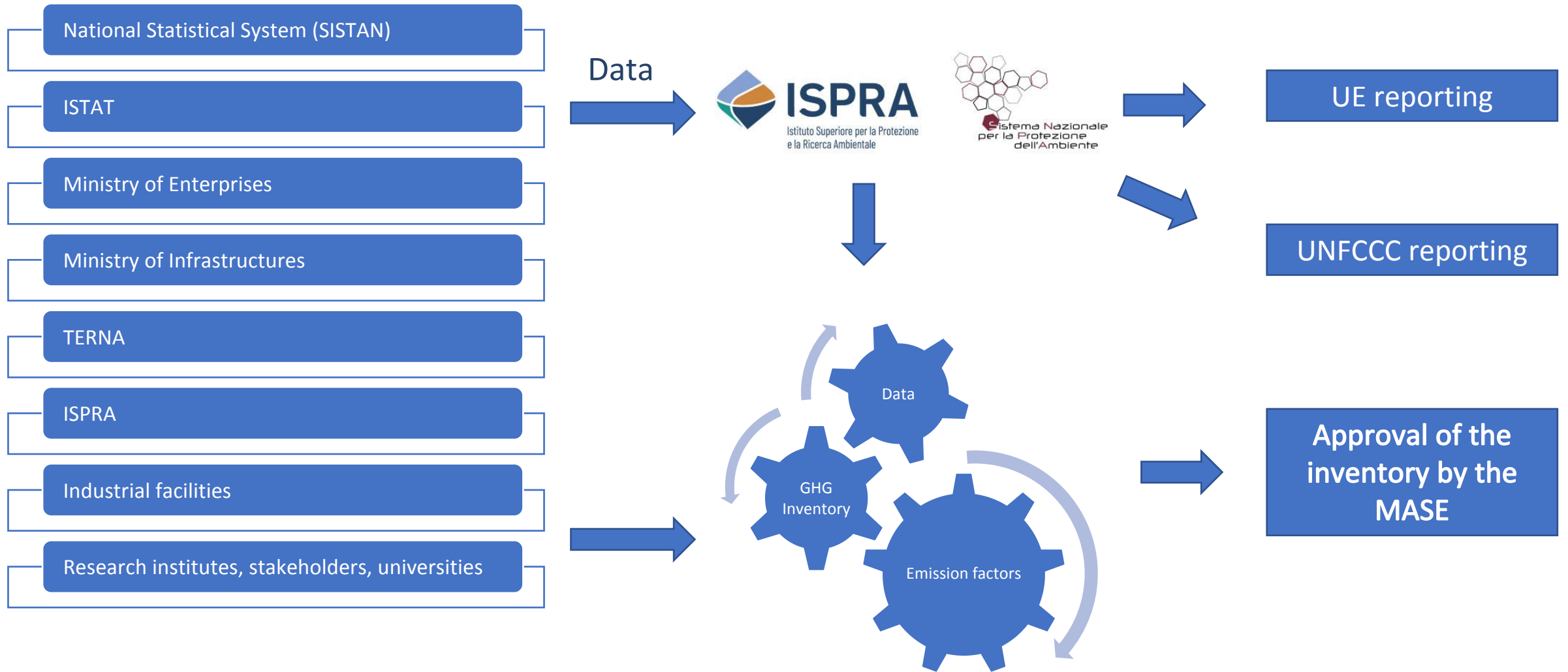
Italian Network

SISTAN Sistema Statistico Nazionale — la rete statistica per il paese

ISTITUTO SVPERIORE DI SANITA

Ministero della Salute

ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale

Sistema Nazionale per la Protezione dell'Ambiente

20 Regions
19 ARPA
2 APPA

sina sistema informativo nazionale ambientale

National network

EIONET

170 experts
65 reporters
46 Institutions

Other institutions, entities, stakeholder, Competent authorities etc.

MINISTERO DELL'AMBIENTE E DELLA SICUREZZA ENERGETICA

Ministero delle infrastrutture e dei trasporti

EIONET   ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale   Sistema Nazionale per la Protezione dell'Ambiente

Italian Network - the example of GHG Emission National Network

National Statistical System (SISTAN)

ISTAT

Ministry of Enterprises

Ministry of Infrastructures

TERNA

ISPRA

Industrial facilities

Research institutes, stakeholders, universities

Data

ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale

Sistema Nazionale per la Protezione dell'Ambiente

UE reporting

UNFCCC reporting

Data

GHG Inventory

Emission factors

Approval of the inventory by the MASE

EIONET

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Performance through the years

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Albania	30	45	21	19	31	53	47	36	56	45		21	46	64	72	63	86	82	71
Austria	98	100	100	100	100	95	98	83	96	96		83	100	95	96	100	89	92	100
Belgium	66	69	75	96	92	90	94	92	90	93		98	97	100	96	98	95	85	81
Bosnia and Herzegovina	22	53	46	58	56	50	53	42	31	10		15	25	33	50	56	75	60	46
Bulgaria	89	80	92	96	92	92	94	92	96	96		73	89	84	85	86	89	85	81
Croatia	17	48	71	69	78	92	89	92	95	88		90	100	80	90	95	91	75	71
Cyprus	25	63	81	90	90	73	88	83	71	79		70	67	82	77	89	75	71	92
Czechia	65	68	84	80	85	85	82	84	84	92		65	86	84	90	98	89	77	75
Denmark	69	63	78	73	94	92	96	92	90	71		85	83	91	79	91	77	81	69
Estonia	81	90	86	96	96	98	98	94	98	96		88	89	100	98	98	98	90	98
Finland	75	73	78	92	85	83	83	90	92	89		95	92	98	88	93	89	85	73
France	83	85	89	94	96	96	94	96	88	86		90	83	93	98	91	80	83	81
Germany	75	92	78	88	100	98	94	94	96	96		95	97	89	83	77	61	73	73
Greece	54	50	50	52	58	58	65	69	67	61		60	44	45	60	70	59	83	63
Hungary	80	86	78	66	45	41	65	65	60	75		68	78	75	67	83	77	73	81
Iceland	56	30	64	73	64	75	80	70	70	50		81	67	89	81	81	60	60	64
Ireland	73	73	81	94	92	90	92	94	98	96		90	92	98	100	91	98	90	85
Italy	59	50	64	67	54	60	62	63	77	68		65	61	73	90	95	77	75	88
Kosovo*	N/A	N/A	N/A	N/A	N/A	N/A	57	66	61	56		46	38	60	67	88	100	100	100
Latvia	98	100	97	98	98	96	85	94	94	86		93	92	93	90	77	91	85	94
Liechtenstein	64	54	60	57	86	82	97	66	34	45		25	33	25	9	19	8	0	0
Lithuania	83	94	94	85	94	94	96	94	90	86		73	97	82	77	89	89	73	83
Luxembourg	39	44	34	58	53	63	84	89	80	96		63	83	91	81	93	98	81	92
Malta	63	68	69	86	52	34	46	77	69	64		45	50	70	69	73	64	58	58
Montenegro	36	56	0	17	6	44	53	50	56	30		46	25	44	44	69	69	60	63
Netherlands	77	79	81	60	77	88	96	88	90	93		85	100	80	90	93	91	92	98
North Macedonia	69	78	75	75	72	69	69	66	81	81		79	70	100	100	100	100	100	100
Norway	65	78	93	80	85	90	89	89	89	92		88	82	75	86	78	75	58	73
Poland	58	77	69	79	81	79	88	92	87	89		98	97	86	79	84	100	90	100
Portugal	27	42	64	83	85	90	85	77	85	82		93	86	100	73	80	86	81	90
Romania	11	75	86	96	92	92	92	90	87	82		70	58	68	52	68	77	85	92
Serbia	36	56	60	78	75	75	72	78	78	90		72	75	93	100	89	100	50	97
Slovakia	85	95	97	91	98	82	92	92	92	96		90	86	100	100	90	91	77	81
Slovenia	75	96	94	96	94	96	94	94	96	89		93	81	86	90	75	84	83	98
Spain	52	56	64	63	83	85	90	92	92	96		85	94	98	100	91	98	81	98
Sweden	94	96	97	100	100	98	100	100	96	96		80	81	100	100	100	100	83	92
Switzerland	75	39	85	100	97	94	100	83	94	95		86	100	100	100	100	100	89	89
Türkiye	19	17	25	47	64	64	72	64	69	35		57	65	43	32	57	50	47	47
United Kingdom	82	83	94	65	81	98	96	96	94	89		98	100	98	92	89	N/A	N/A	N/A
Median EU-27 + UK	74	76	81	87	91	90	92	92	90	89		85	89	91	90	91	89	81	80
Median EEA-32 + UK	69	73	81	85	86	90	92	90	90	89		85	86	89	88	89	89	81	80
Median EEA-38 + UK	66	71	78	80	85	87	89	89	88	88		81	83	86	86	89	89	81	85

Performance - Italy

Italy — Linear (Italy)
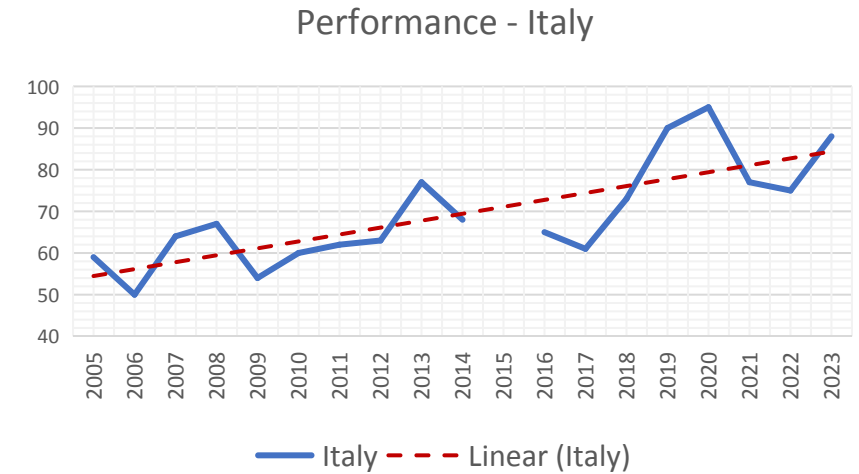
Performance 2023

Italy: 88% > Median EEA-38: 85%

Performance 2024

	Instrument	Obligation	Frequency	Reporting deadline
701	Greenhouse gas Monitoring Mechanism Regulation (MMR)	Greenhouse gas inventories	Annual	15/01/2024
357	CLRTAP	LRTAP Convention - National emission inventories	Annual	15/02/2024
32	EEA-Eionet	Nationally designated areas (CDDA)	Annual	15/03-2024
613	Urban Waste Water Treatment Directive	UWWTD – Implementation (Article 15)	2-yearly	30/06/2024
721	Industrial Emissions Directive (IED)	EU Registry on Industrial Sites	Annual	30/09/2024
673	Air Quality Directive IPR	(E1a) Information on primary validated assessment data - measurements (Article 10)	Annual	30/09/2024
760	Marine Strategy Framework Directive	MSFD Article 4 - Marine reporting units	6-yearly	15/10/2024
720	E-PRTR regulation	E-PRTR and LCP integrated data reporting	Annual	30/11/2024
787	Bathing Water Directive (2006)	Monitoring and Classification of Bathing Waters	Annual	31/12/2024
572	EEA-Eionet	Corine Land Cover 2024	6-yearly	31/12/2024
630	EEA-Eionet	WISE SoE - Biology data (WISE-2)	Annual	14/01/2025
14	EEA-Eionet	WISE SoE - Water quality (WISE-6)	Annual	14/01/2025
184	EEA-Eionet	WISE SoE - Water Quantity (WISE-3)	Annual	17/01/2025
675	Air Quality Directive IPR	(E2a) Information on primary up-to-date assessment data - measurements (Article 10)	Continuous	

Reporting issues for Italy

Complexity of the Network: There are many institutions (Ministries, local authorities, municipalities, entities, etc.) at both the national and local levels that contribute to the reporting process.

Reporting Timelines: Reporting deadlines and monitoring activities are too close for some data flows (not enough time for validation of data); wide amount of data to collect; development of new portals and environmental information systems for more efficient data monitoring and collection process; deadlines scheduled in the middle of the Christmas break.

Communication Gaps: Lack of communication regarding changes in the reporters' nomination.

Mismatch Between Thematic Groups (TGs) and Reporters: There are communication gaps and misalignments between reporters and thematic groups, as some reporters are not included in the MS Teams channels.

Comparison with other countries

What causes delays and/or quality issues?

Aside from 'Don't know', four general categories were identified as the cause of problems:

- Data sharing issues between agencies/institutions.
- Resourcing issues / staff turnover
- Data format / Uploading issues
- Lack of monitoring data

'Don't know' is also interesting:

- Difficult to address issues without knowing cause of the problem.
- Remember EEA can provide specific feedback on quality issues.
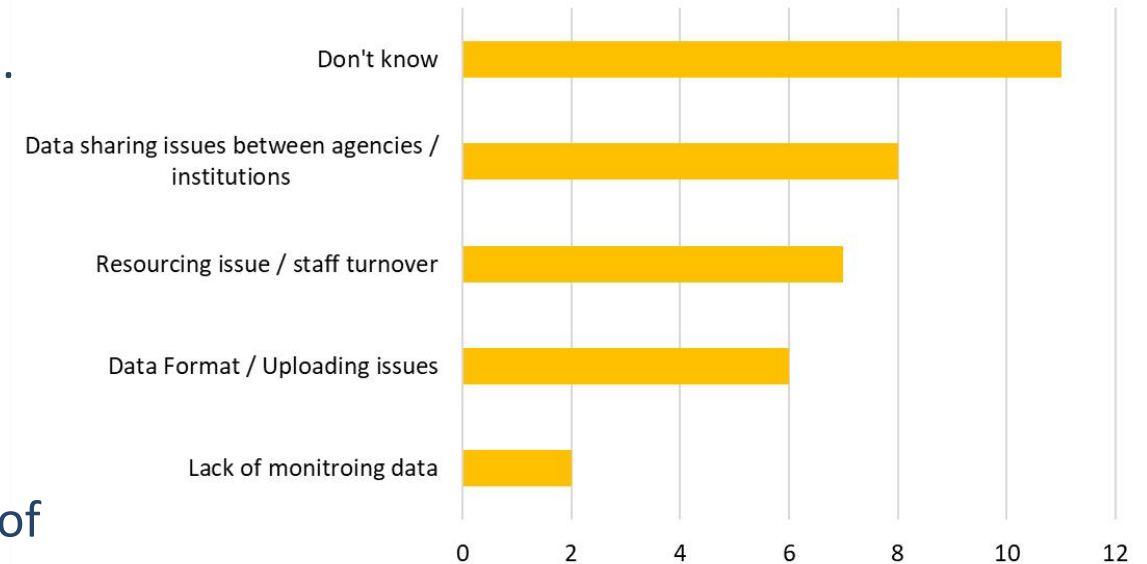
Source: A cross-European analysis of Core Data Flows results by Swedish EPA - NDFC meeting 09/06/2022

Comparison with other countries

- The NDFC role has yet to be fully and effectively established in many countries, as demonstrated either by the lack of a response or by the lack of insight concerning failed reporting.

- Some reporters expressed frustration with uploading issues and difficulty contacting the EEA helpdesk.
    - With quick help and clear blocker feedback reporting would be achieved on-time more regularly.

- 'Data sharing issues at the national level' was the most commonly identified reason for losing points.

- Successful reporting is often vulnerable and appears dependent on individual expertise as demonstrated by the extreme impact of staff turnover on scores.

Source: A cross-European analysis of Core Data Flows results by Swedish EPA - NDFC meeting 09/06/2022

Dataflows transitioning to Reportnet 3

Dataflows transitioning to Reportnet 3

Reporting in 2024

- WISE-1, WISE-2, WISE-3, WISE-6
- Drinking Water Directive (revised model)
- Nitrates Directive (EEA taking over from JRC)
- Floods Directive (all obligations for re-submissions)
- Marine Strategy Framework Directive – text reports (art 8,9,10) and geospatial (art 4)
- Corine Land Cover 2024

Reporting in 2025

- Birds Directive - Report on progress and implementation Article 12 (6-yearly)
- Habitats Directive - Report on progress and implementation Article 17 (6-yearly)
- Invasive Alien Species (6-yearly)
- Information on Natura 2000 sites (annual)
- Under consideration: LRTAP and NEC Directive

New dataflows on the radar

Reporting in 2026

- ➢ Seveso Directive (industrial accidents)
  - Transitioning from JRC to EEA
- ➢ Water Reuse Regulation
  - Dataflow schema ready to be discussed, awaiting DG ENV on reporting timing
- ➢ Nature Restoration Law
  - For example National Restoration Plan. To be further defined

Usefull links for reporting

Eionet Core Data Flows overview, NDFC role overview, helpdesks email addresses
- https://www.eionet.europa.eu/reportnet/dataflows

ROD
- Instruments and obligations (https://rod.eionet.europa.eu/obligations?anmode=F)
- Subscribe to ROD updates (https://rod.eionet.europa.eu/subscribe) – requires eionet login
- List of dataflows with deadline and reporter group:
  https://cr.eionet.europa.eu/sharedSparqlBookmarks.action

Reportnet2
- Deliveries
  - https://rod.eionet.europa.eu/spatial
  - https://cdr.eionet.europa.eu/ReportekEngine/searchdataflow
- Permissions (https://www.eionet.europa.eu/countries/eionet-countries/index)

Reportnet 3
- Deliveries (https://reportnet.europa.eu/public/countries)
- Lead reporters list (https://reportnet.europa.eu/) – requires EU login (Request to helpdesk@reportnet.europa.euonly 12 countries so far)

Reporters nomination

- For Reportnet 2 data flow: https://www.eionet.europa.eu/ldap-roles/filter?pattern=extranet-*-*-IT

- For Reportenet 3 data flow, after authentication : (https://www.eionet.europa.eu/reportnet/docs/prod/howto_login_reportnet3).

Any changes in the nominated reporters, please communicate to the NDFC and/or the NFP Team

- NFP Team – i-nfp@isprambiente.it
- NDFC – alessandro.lotti@isprambiente.it

Thank you for your attention

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