

# WP4 – T-FORS Demonstration and Evaluation

**A. Garcia speaking for all WP4 members**

**ONERA, NOA, GFP**

## Task and Responsibilities

- **Task 4.1 - T-FORS functional requirements (T05 - T11)**
  - Lead ONERA, Participants: NOA, GFP
- **Task 4.2 - Development, deployment of real-time services (T12 - T20)**
  - Lead: NOA, Participants: ONERA, GFP, INGV, IAP-L
- **Task 4.3 - On ground demonstration tests (T18 - T22)**
  - Lead: ONERA, Participants: GFP
- **Task 4.4 - Release of final T-FORS services (T20 - T24)**
  - Lead: NOA, Participants: ONERA, GFP, INGV, IAP-L

2023								2024													
M	J	J	A	S	O	N	D	MJ	F	M	A	M	J	J	A	S	O	N	D		
T05	T06	T07	T08	T09	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	T21	T22	T23	T24		
Task 4.1			✘	D4.1 (ONE)																	
							Task 4.2	D4.2 (NOA)													
												Task 4.3		D4.3 (ONE)							
														Task 4.4		D4.4 (NOA)					

- Task 4.1 : May 2023 (T5) → Nov 2023 (T11)
- Task 4.2 : Dec 2023 (T12) → Aug 2024 (T20)
- Task 4.3 : Jun 2024 (T18) → Oct 2024 (T22)
- Task 4.4 : Aug 2024 (T20) → Dec 2024 (T24)

- Task 4.1 - [ONERA, NOA, GFP] (T05 – T11)**

Specification of system functionalities.

In this task we will collect requirements based on the participants experience from the operation of ionospheric weather systems and from the design and development of large e-infrastructure projects.

	Public Operator	Premium Operator	Scientist Operator
Provide alarms	X	X	X
Provide archived data			X
Access to database			X
Provide interfaces	X	X	X
Provide local real time data	X <sub>1</sub>	X <sub>2</sub>	X <sub>2</sub>
Provide standardized data format			X
Performance	X	X	X

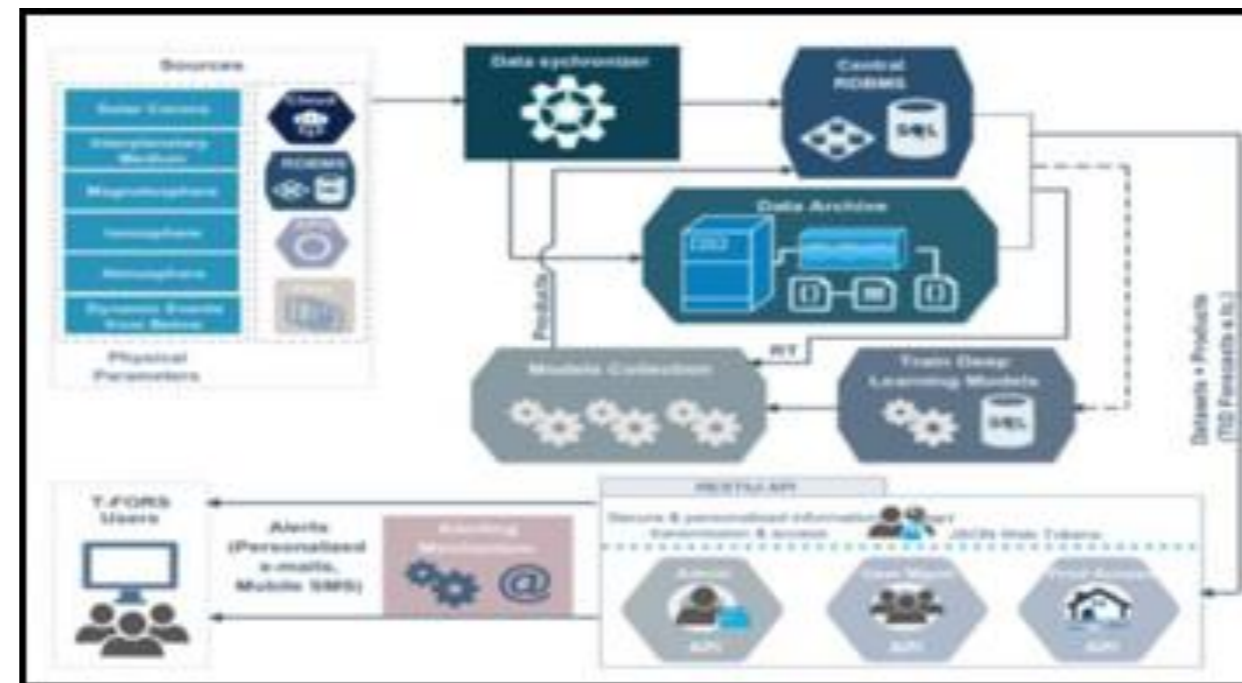
- Limited resolution
- High accuracy data

Non-functionnal requirements :

- Legal and regulatory
- Security
- Maintenance
- Infrastructure

D4.1 T-FORS Functionalities will be delivered end of july/beginning of august.

- **Task 4.2 - [NOA, ONERA, GFP, INGV, IAP-L] (T12 – T20)**
- Based on the initial requirements, the T-FORS services will be designed (MS 8) and developed using the results of the **forecasting models** provided by **WP2 and WP3** and the **functional specifications** (T4.1). => The products will be tested regarding its IT specifications in the T-FORS proof of concept (MS 9)



- **Task 4.3 - [ONERA, GFP] (T18 – T22)**

- ONERA and GFP implement T-FORS services to validate the usability for specific applications concerned – Targeted services TRLs : 3-4.

Usability => Availability / Resources management / performances of the service / ...

Ground demonstration tests using HF sources direction finder & HF OTH Radar

*For now: first exchanges between ONERA and GFP about NOSTRADAMUS system and GFP's Direction Finder (Plath U646 antennas system) / NOSTRADAMUS system in upgrade (end 2023 low power emission)*



- **Task 4.4 - [NOA, ONERA, GFP, INGV, IAP-L] (T20 – T24)**

- The results from the on ground demonstrations will guide the release of the final version of the T-FORS services.



- D4.1 : T-FORS functionalities – report [T08, **ONERA**] end of July → final revision
- D4.2 : T-FORS prototype [T20, **NOA**]
- D4.3 : Results from on ground demonstrations - report [T21, **ONERA**]
- D4.4 : Final version of T-FORS services [T24, **NOA**]
  
- MS7 : T-FORS IT system initial requirements [T10]
- MS8 : Design of the forecasting products [T14]
- MS9 : T-FORS proof of concept [T18]
- MS14 : Specific methodology for setting up the innovation forum [T12]

# Thank you for your attention!



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