TS4 nfdi

base4 nfdi · Basic Services for NFDI

Terminology Services for the German National Research Data Infrastructure

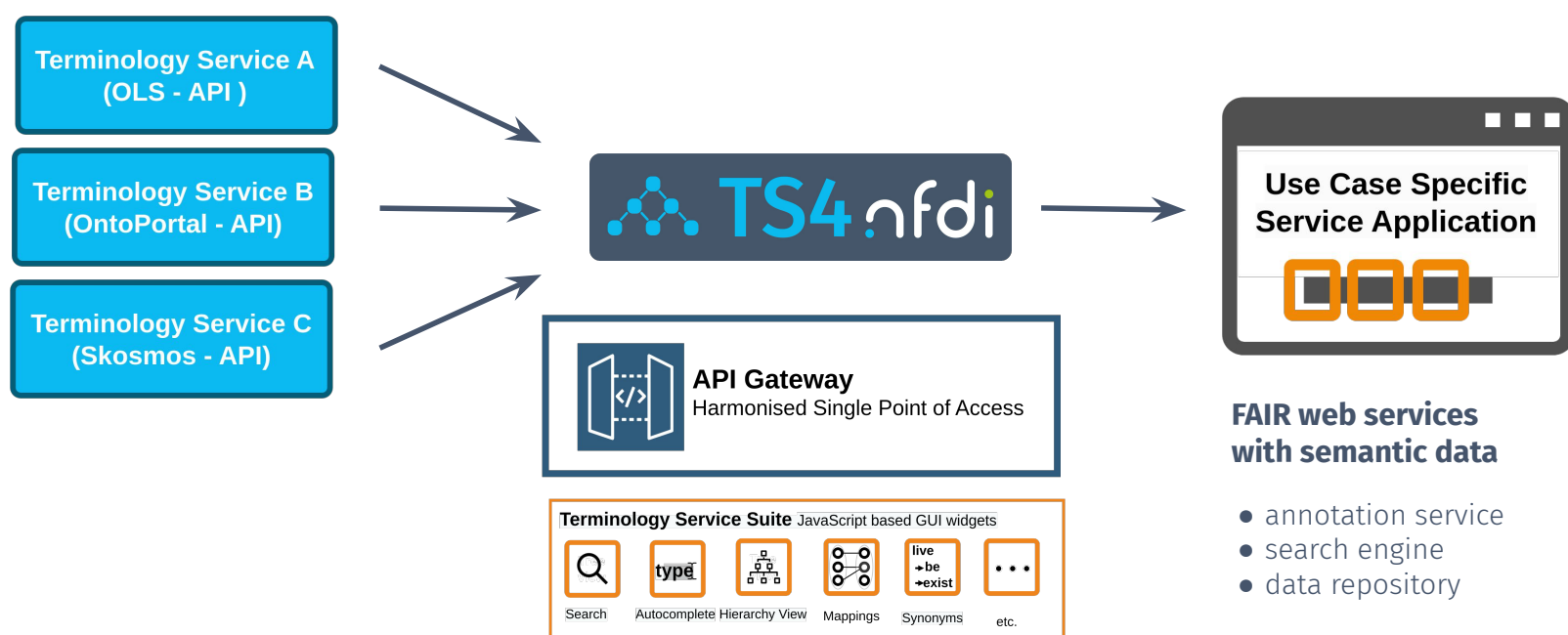Initialisation Phase → **Integration Phase** → Ramp-up Phase

Vision

- Help researchers use and share **consistent terminologies** (standardised vocabulary) across different fields
- **Provide tools** to organize, connect, and align terminology, ensuring that data is interpreted the same way by everyone
- Build a **central platform with services** for searching, mapping, and integrating terminologies

Architecture of API Gateway

Terminology Service A (OLS - API)

Terminology Service B (OntoPortal - API)

Terminology Service C (Skosmos - API)

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Use Case Specific Service Application

API Gateway
Harmonised Single Point of Access

Terminology Service Suite JavaScript based GUI widgets

Search | Autocomplete | Hierarchy View | Mappings | Synonyms | etc.

FAIR web services with semantic data

- annotation service
- search engine
- data repository

Persona Impressions

I am a **biomedical researcher**. Annotating my research data is frustrating when every source uses different terms, and I'm never sure which one is correct. TS4NFDI helps by providing clear, standardized terminology recommendations, so I can keep my annotations accurate and consistent without wasting time searching for the right terms.

I am a **research software engineer**. Building research tools is challenging when datasets use different terminologies, and I have to manually map terms across multiple sources. With TS4NFDI's single-point-of-access API and easy-to-integrate widgets, I can seamlessly integrate standardized vocabularies into my web applications, making my tools more efficient and ensuring smooth data interoperability.