In the ACCESS scenario, developers can use information from terminologies programmatically to provide semantically enriched web services.

In the CONSUME scenario, information from the terminologies can be retrieved and stored to your local information system.

In the CONTRIBUTE scenario, scientists can store or connect their terminologies to the TS in order to access all services automatically.

In the EXPLORE scenario, researchers can browse and search terminology that are interesting for their research.

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Reference

Technical Architecture
The GFBio Terminology Service (TS) provides a web service's interface that serves as a generic access point to heterogeneous terminological resources. The TS offers universal access to the various types of terminologies in a uniform and transparent manner.

These terminologies are either internally hosted or accessed via their remote web services. Internal terminologies are stored in a local Semantic Web repository (Virtuoso).

The key component of the TS is the adapter that enables the mapping of both internal terminologies and external terminological resources into a common output format.

The service endpoints (RESTful API) are grouped into four categories: search service, terminology services, term services and hierarchy-oriented services.

Terminology Overview
The term "terminology" refers to any terminological resource. We distinguish between five different types of formality levels of terminologies with differing levels of specifications - it ranges from simple lists of terms (controlled vocabularies) to semantically rich ontologies.