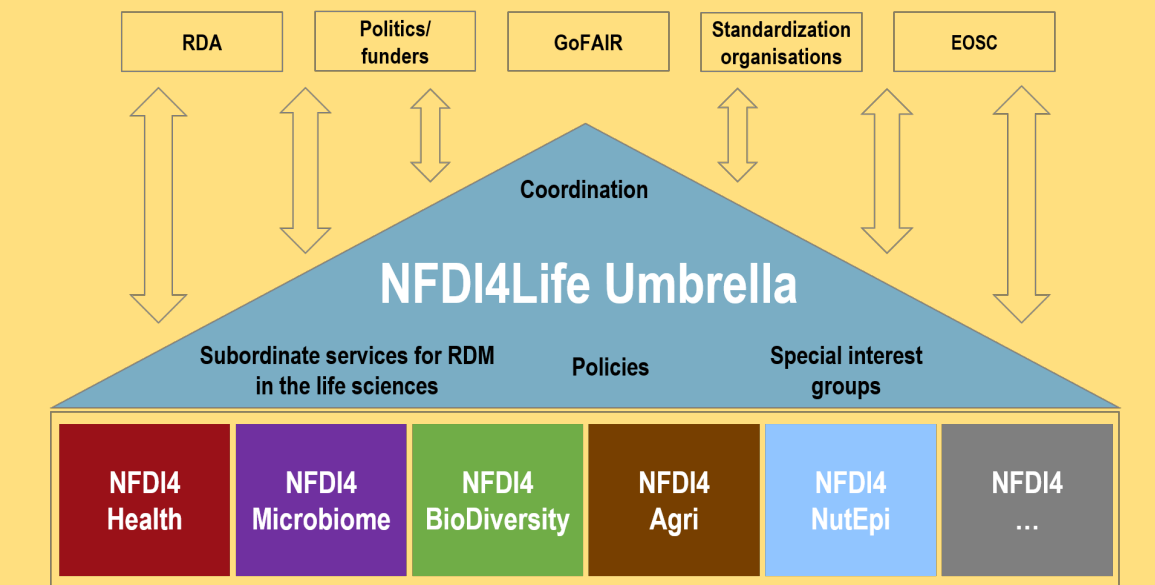


NFDI4Microbiome



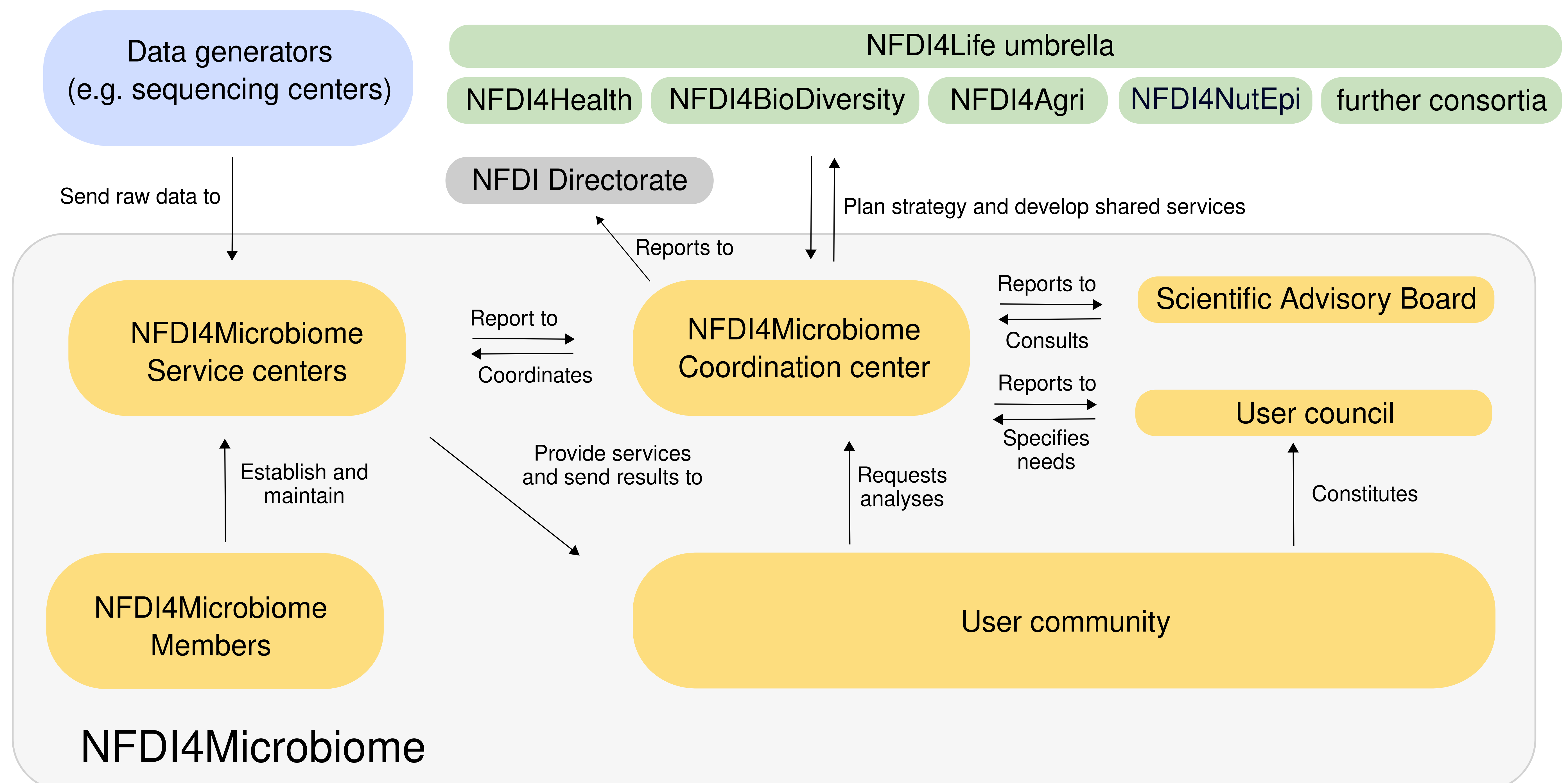
National Research Data Infrastructure for Microbiome Research

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The vision of the NFDI4Microbiome consortium is to make the analysis of diverse microbiome related data consistently reproducible and accessible to all fields of the life science community. It will assist researchers with different scientific challenges to understand **microbial communities** and the **interactions between the species** in them. For this purpose the consortium will provide the **computational infrastructure** as well as **analytical tools** for the community to compile, analyze and store various types of data with the aim to decipher the interspecies interactions on a molecular level. NFDI4Microbiome will enable efficient and reproducible processing of **metagenomes, meta-transcriptomes, meta-proteomes** and **meta-metabolomic information** as well as of data from **single cell sequencing**. It will enrich those data by metadata from databases as well as by knowledge automatically extracted from literature and make the data interoperable. The increased understanding of microbiota interactomes and bacterial interspecies interactions facilitated by this infrastructure will be beneficial for biotechnology, agriculture, ecology, and medicine.



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