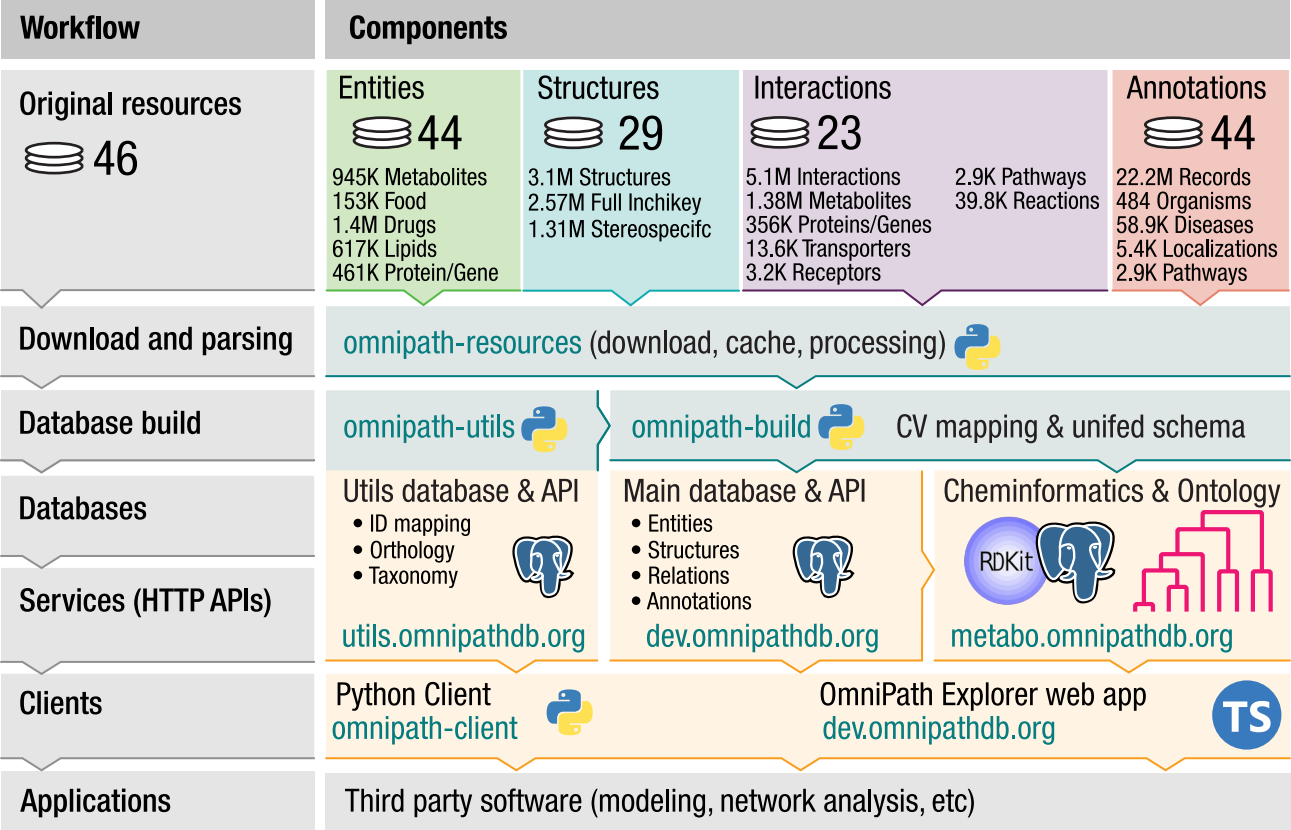
Workflow
Components
Original resources
46
Entities
44
945K Metabolites
153K Food
1.4M Drugs
617K Lipids
461K Protein/Gene
Structures
29
3.1M Structures
2.57M Full Inchikey
1.31M Stereospecifc
Interactions
23
5.1M Interactions
1.38M Metabolites
356K Proteins/Genes
13.6K Transporters
3.2K Receptors
2.9K Pathways
39.8K Reactions
Annotations
44
22.2M Records
484 Organisms
58.9K Diseases
5.4K Localizations
2.9K Pathways
Download and parsing
omnipath-resources (download, cache, processing)
Database build
omnipath-utils
omnipath-build
CV mapping & unifed schema
Databases
Utils database & API
• ID mapping
• Orthology
• Taxonomy
Main database & API
• Entities
• Structures
• Relations
• Annotations
Cheminformatics & Ontology
RDKit
Services (HTTP APIs)
utils.omnipathdb.org
dev.omnipathdb.org
metabo.omnipathdb.org
Clients
Python Client
omnipath-client
OmniPath Explorer web app
dev.omnipathdb.org
TS
Applications
Third party software (modeling, network analysis, etc)