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| **Build** | **Product** | **Component** | **Task** |
| Data Factory (DF) | Brain morphological features | Feature Engineering | T8.3.11 Brain morphological features UCL |
| Algorithm Library | Large Scale Analytics Algorithms | Machine Learning Library | T8.4.5 Large-scale data analytics on massively parallel architecture ICL |
| Hospital Databases Bundle (HDB) | Extended multidimensional query support | Local Database | T8.1.1 Infrastructure to support just-in-time analytics on raw medical data EPFL |
| Hospital Databases Bundle (HDB) | Distributed local query engine over HPC | Local Database | T8.1.2 Installation of RAW on local computing infrastructure for hospital analytics requirements EPFL |
| Algorithm Factory (AF) | Hospital hubs | Workflow Engine: Woken | T8.1.2 Installation of RAW on local computing infrastructure for hospital analytics requirements EPFL |
| Upgrade-Deploy-Release | SERVICES > Upgrade-Deploy-Release > MIP Integrated Releases Hospital Databases Bundle | MIP Integrated Releases Hospital Databases Bundle | T8.1.3 Installation and adaptation of SP8 bundle at local hospitals with upgrade support EPFL |
| Algorithm Library | Disease signature: Distributed rule-based methods | Machine Learning Library | T8.3.5 Methods for distributed rule-based disease signature discovery JSI |
| Algorithm Library | Longitudinal modeling: Tree-based and equation-based methods | Machine Learning Library | T8.3.8 Methods for disease progression modeling JSI |
| MDR (Meta Data Register) | Ontologies for describing data on neurological diseases, patients | Ontology&Standards | T8.3.9 Ontologies for describing data on neurological diseases, patients JSI |
| Algorithm Library | GeneHeatMapper | Brain Anatomy | T8.3.10 Methods for linkage of local SNP data (individual SNPs) to imaging data through SNP LUMC |
| Algorithm Library | 3-C (Categorize, Cluster & Classify) | Statistical Analytics | T8.3.1 Tools to mine replicable selection and integration of hierarchical features, inter and across domains using FDR. TAU |
| Algorithm Library | 3-C Longitudinal Modeling | Statistical Analytics | T8.3.1 Tools to mine replicable selection and integration of hierarchical features, inter and across domains using FDR. TAU |
| Algorithm Library | Integrating multi-domain data | Statistical Analytics | T8.3.1 Tools to mine replicable selection and integration of hierarchical features, inter and across domains using FDR. TAU |
| Algorithm Library | Transformations in medical big data | Statistical Analytics | T8.3.2 Developing methods for high-dimensional data with possible informative missing values TAU |
| Algorithm Library | Statistical procedures and workflows for missing values | Statistical Analytics | T8.3.2 Developing methods for high-dimensional data with possible informative missing values TAU |
| Algorithm Library | Clustering: incorporating Knowledge into the process | Statistical Analytics | T8.3.3 Introducing selective inference into dimensionality reduction and clustering methods TAU |
| Algorithm Library | Disease Signatures -concept and methodology | Statistical Analytics | T8.3.4 Statistical methods for 'Disease Signature' confidence assessment TAU |
| Algorithm Library | Integrating multi-domain data: Methods for redescription mining | Machine Learning Library | T8.3.6 Methods for redescription mining JSI |
| Algorithm Library | Integrating multi-domain data: Methods for heterogeneous networks | Machine Learning Library | T8.3.7 Methods for heterogeneous networks JSI |
| Hospital Databases Bundle (HDB) | Nifti data source for local query engine | Local Database | T8.1.1 Infrastructure to support just-in-time analytics on raw medical data EPFL |
| Hospital Databases Bundle (HDB) | Genetic data data source for local query engine | Local Database | T8.1.1 Infrastructure to support just-in-time analytics on raw medical data EPFL |
| Hospital Databases Bundle (HDB) | Nifti library in local query engine | Local Database | T8.1.1 Infrastructure to support just-in-time analytics on raw medical data EPFL |
| Hospital Databases Bundle (HDB) | Genetic data library in local query engine | Local Database | T8.1.1 Infrastructure to support just-in-time analytics on raw medical data EPFL |
| Hospital Databases Bundle (HDB) | Secure connection between two hospitals. | Local Database | T8.1.2 Installation of RAW on local computing infrastructure for hospital analytics requirements EPFL |
| Data Factory (DF) | Anonymisation tests | Data Anonymisation | T8.1.3 Installation and adaptation of SP8 bundle at local hospitals with upgrade support EPFL |
| Data Factory (DF) | Encrypted overlay network | Workflow Engine | T8.1.3 Installation and adaptation of SP8 bundle at local hospitals with upgrade support EPFL |
| Data Factory (DF) | Remote starting of services | Workflow Engine | T8.1.3 Installation and adaptation of SP8 bundle at local hospitals with upgrade support EPFL |
| Hospital Databases Bundle (HDB) | Sharing processing among local hospital nodes | Local Database | T8.1.2 Installation of RAW on local computing infrastructure for hospital analytics requirements EPFL |
| Hospital Databases Bundle (HDB) | Master component | Federated Query | T8.1.5 Distributed complex workflow engine UoA |
| Hospital Databases Bundle (HDB) | Worker/ Bridge Component | Federated Query | T8.1.5 Distributed complex workflow engine UoA |
| Upgrade-Deploy-Release | Web portal connector component | MIP Integrated Releases Web Exploration & Analytics | T8.1.5 Distributed complex workflow engine UoA |
| Hospital Databases Bundle (HDB) | UDFs component | Federated Query | T8.1.6 User Defined Functions (UDFs) and query templates UoA |
| Hospital Databases Bundle (HDB) | template composer component | Federated Query | T8.1.6 User Defined Functions (UDFs) and query templates UoA |
| Hospital Databases Bundle (HDB) | Query template repository | Federated Query | T8.1.7 Query templates and workflow management UoA |
| Hospital Databases Bundle (HDB) | Management component of query template repository | Federated Query | T8.1.7 Query templates and workflow management UoA |
| Hospital Databases Bundle (HDB) | Access Rights Module (ARM) | Local Database | T8.1.4 Data Integration AUEB |
| Web Exploration and Analytics | Access Rights Module (ARM) | Data Access | T8.1.4 Data Integration AUEB |
| Hospital Databases Bundle (HDB) | Ontology-based data access Module (OBDA Module) | Schema Mapping | T8.1.4 Data Integration AUEB |
| Data Factory (DF) | Ontology-based data access Module (OBDA Module) | Data Integration | T8.1.4 Data Integration AUEB |
| Data Factory (DF) | Online Data Integration Module (ODIM) | Data Integration | T8.1.4 Data Integration AUEB |
| Hospital Databases Bundle (HDB) | Online Data Integration Module (ODIM) | Schema Mapping | T8.1.4 Data Integration AUEB |
| Hospital Databases Bundle (HDB) | Community Schema Curation Module (ComSchema) | Schema Mapping | T8.1.4 Data Integration AUEB |
| Data Factory (DF) | Community Schema Curation Module (ComSchema) | Data Integration | T8.1.4 Data Integration AUEB |
| Data Factory (DF) | Data Uploader | HPC | T8.4.5 Large-scale data analytics on massively parallel architecture ICL |
| Data Factory (DF) | Data Cleaning & Formatting | HPC | T8.4.5 Large-scale data analytics on massively parallel architecture ICL |
| Data Factory (DF) | Analytics Library | HPC | T8.4.5 Large-scale data analytics on massively parallel architecture ICL |
| Data Factory (DF) | Data Download | HPC | T8.4.5 Large-scale data analytics on massively parallel architecture ICL |
| Algorithm Library | Brain Scale High Performance Deep Phenotyping | Brain Anatomy | T8.4.1 Brain scale high performance deep phenotyping CHUV |
| Algorithm Library | Brain Scale Disease Bayes Modelling | Biological Diagnostic Tools | T8.4.2 Brain scale disease bayes modelling CHUV |
| Algorithm Library | Tools for Macro- to Micro-Scale Data Analysis and Atlasing | Brain Anatomy | T8.4.3 Tools for macro- to micro-scale data analysis and atlasing CHUV |
| Web Exploration and Analytics | Hospitals Information System Database | Knowledge Base Application | T8.2.2 Hospitals and information system departments relationship management UNIGE |
| Community | Interactions with research initiatives | Clinical demonstrators | T8.2.3 Research initiatives UNIGE |
| Web Exploration and Analytics | Knowledge Base | Knowledge Base Application | T8.5.1 Web-based medical data analyses foundation UNIGE |
| Upgrade-Deploy-Release | mip-microservices-infrastructure | Micro-services | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |
| Web Exploration and Analytics | Frontend and portal-backend Descriptive Stats and Stats Viewer | Epidemiological Exploration (EE) | T8.5.1 Web-based medical data analyses foundation CHUV |
| Web Exploration and Analytics | Frontend and portal-backend Model Configuration | Model Configuration | T8.5.1 Web-based medical data analyses foundation CHUV |
| Web Exploration and Analytics | Experiment Builder | Experiment Builder | T8.5.1 Web-based medical data analyses foundation CHUV |
| Web Exploration and Analytics | Experiment Builder Parameter setting | Experiment Builder | T8.5.1 Web-based medical data analyses foundation CHUV |
| Web Exploration and Analytics | Information and Scientific references | Information and Scientific references | T8.5.1 Web-based medical data analyses foundation CHUV |
| Data Factory (DF) | Workflow tools for Genetic and Neuroimaging | Data Pipeline processes | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |
| Data Factory (DF) | Data Quality process | Data Quality Processes | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |
| Algorithm Factory (AF) | woken | Workflow Engine: Woken | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |
| Algorithm Factory (AF) | woken-validation | X-Validation module | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |
| Algorithm Factory (AF) | functions-repository | Package of Algorithms as Docker images | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |
| Algorithm Library | base-docker-images | Machine Learning Library | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |
| Algorithm Factory (AF) | Integration of Spark | Workflow Engine: Woken | T8.5.2 Web API and microservices architecture for community driven data analyses and workflows CHUV |