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