EDISON Data Science Framework (EDSF) provides conceptual basis for the development of the Data Science profession

- CF-DS – Data Science Competence Framework
- DS-Bok – Data Science Body of Knowledge
- MC-DS – Data Science Model Curriculum
- DSP - Data Science occupations taxonomy and Professional profiles
- Data Science Taxonomy and Scientific Disciplines Classification

EDSF provides a basis for other components of the Data Science professional ecosystem

- EDEE - EDISON Online Education Environment
- Education and Training Marketplace and Directory
- Data Science professional profiles definition and certification
- Community Portal (CP)

Data Science Body of Knowledge (DS-Bok)

DS-Bok Knowledge Area Groups (KAG) are defined in compliance with the CF-DS

- KAG1-DSA: Data Analytics group including Machine Learning, statistical methods, and Business Analytics
- KAG2-DSE: Data Science Engineering group including Software and infrastructure engineering
- KAG3-DSDM: Data Management group including data curation, Research Data Management, Open Data, Open Access
- KAG4-DSRM: Scientific and Research Methods, use cases/practices
- KAG5-DSBP: Business Process Management (data driven)

Data Science Community Portal (http://datasciencepro.eu)

- One-stop one-stop shop for becoming Data Science Professional and engaging with the Data Science community
- Data Science Benchmarking and Learning Path Recommendation System
- Clearinghouse of educational and training materials and Virtual Labs powered by EGI Fed

EDISON Community Engagement Activities

EDISON is hosting a programme of events across Europe that will appeal to different segments of the data science community.

- EDISON Workshop on Data Infrastructure Competences and Skills Framework: a European and Global Challenge, 9 February 2016, Brussels
- EDISON Champions Conferences for Universities and Training organisations:
  - First: 13-14 July 2016, New Forest, UK - New Forest Milestone declaration
  - Planned for Winter 2017 (Madrid) and Summer 2017 (Poland, TBC)
- Digital Infrastructure for Research (DINR), Krakow, 28-30 September 2016
- Regular EDISON Liaison Group (ELG) meetings
- RDA Interest Group on Education and Training on Handling Research Data (IG-ETHRD) is the EDISON-RDA community liaison venue

Acknowledgement

EDISON project is supported by the Horizon 2020 Programme Grant number 675419 (INFRASePP-4-2015: CSA).

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Data Science Competences include 5 areas/groups

- Data Analytics
- Data Science Engineering
- Domain Knowledge/Expertise
- Data Management
- Scientific Methods (or Business Process Management)

Data Science Competencies includes 5 areas/groups

- Data Science Benchmarking and Learning Path Recommendation System

Data Scientist Professional (DSP)

Definition by NIST Big Data WG (NIST SP1500 - 2015)

A Data Scientist is a practitioner who has sufficient knowledge in the overlapping regimes of expertise in business needs, domain knowledge, analytical skills, and programming and systems engineering expertise to manage the end-to-end scientific method process through each stage in the big data lifecycle.

Data Science Professional (DSP) profiles defined in compliance with the European Skills, European Competences, Qualifications and Occupations (ESCO) Taxonomy

Managers: Chief Data Officer (CDO), Data Science (group/dept) manager, Data Science infrastructure manager, Research Infrastructure manager

Professionals: Data Scientist, Data Science Researcher, Data Science Architect, Data Science (applications) programmer/engineer, Data Analyst, Business Analyst, etc.

Professional (database): Large scale (cloud) database designers and administrators, scientific database designers and administrators

Technicians and associate professionals: Big Data facilities operators, scientific database/infrastructure operators

For more information refer to EDISON documents

EDISON website - http://www.edison-project.eu/

DS-Bok: http://edison-project.eu/data-science-body-knowledge-ds-bok
DSP Profiles: http://www.edison-project.eu/data-science-professional-profiles-dsp