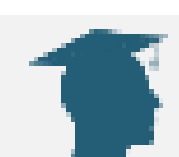




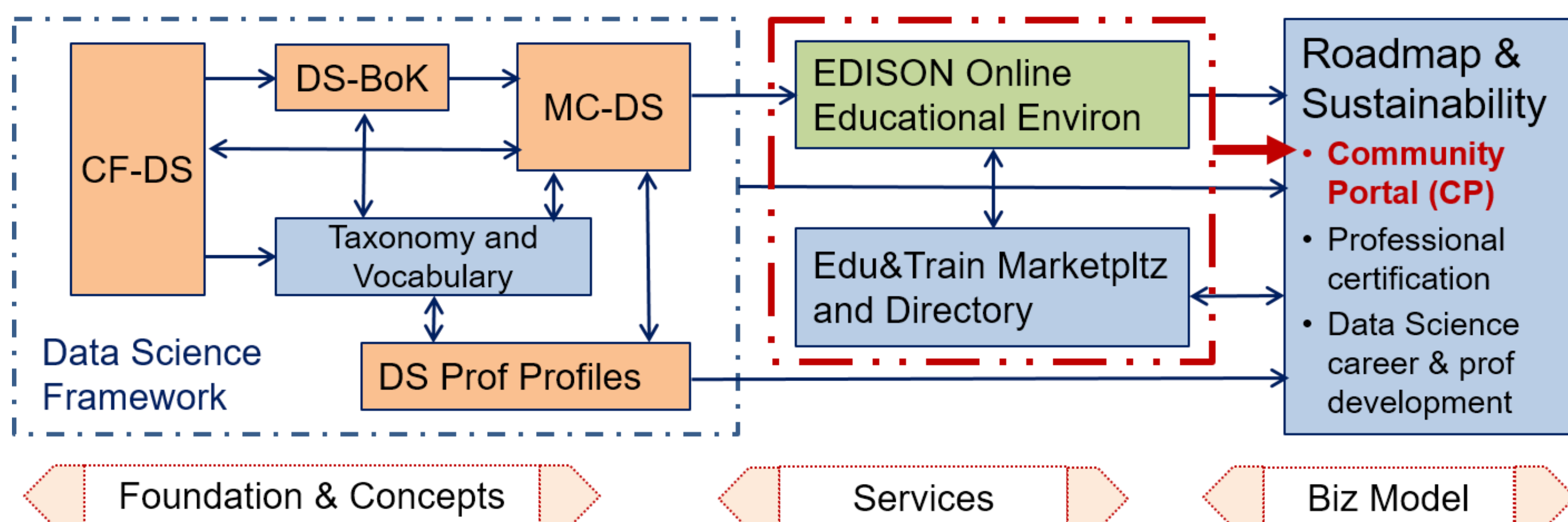
EDISON

building the data
science profession

EDISON Data Science Framework: Sustainable skills management and capacity building on Data Science and Data Stewardship



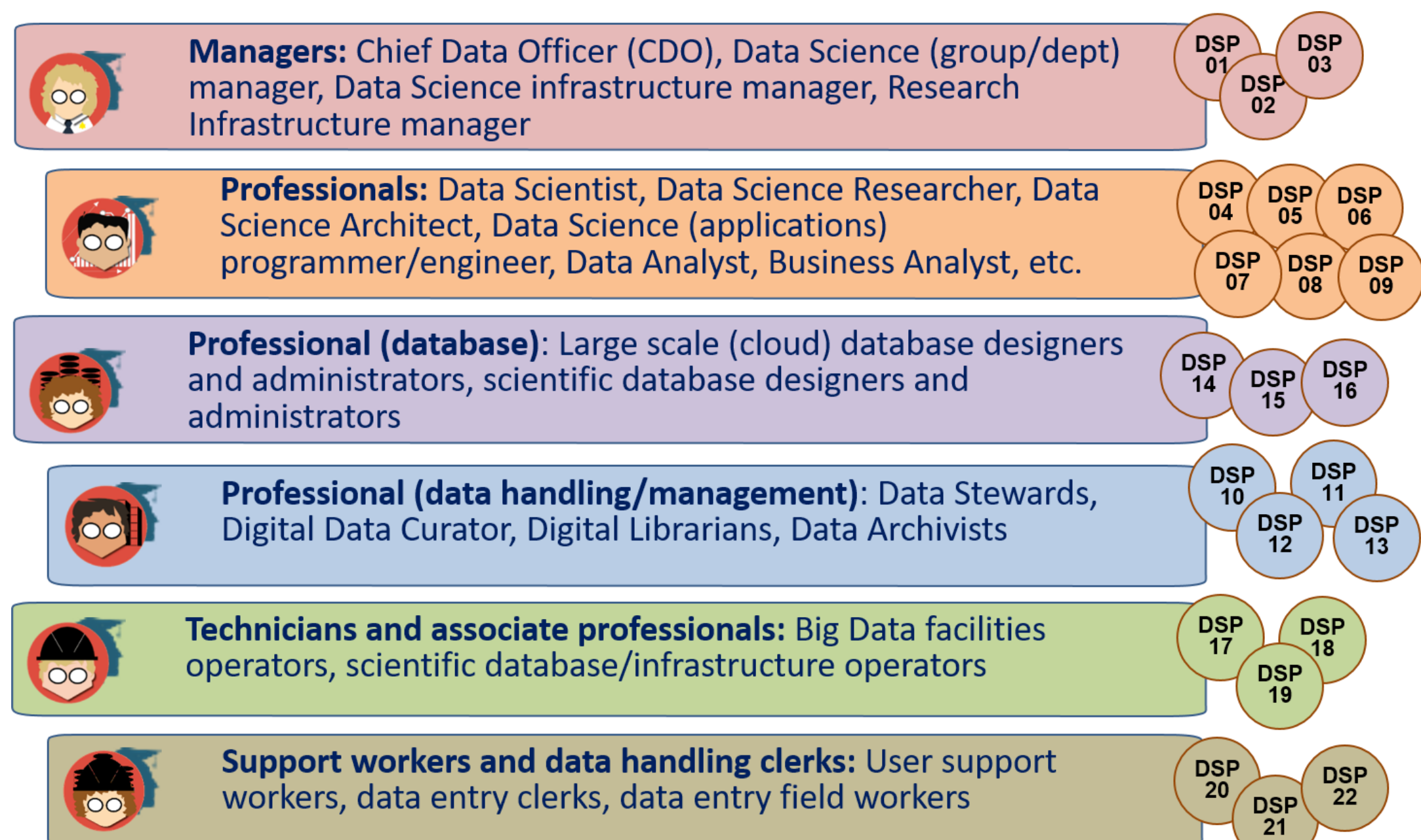
EDISON Data Science Framework (EDSF)



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

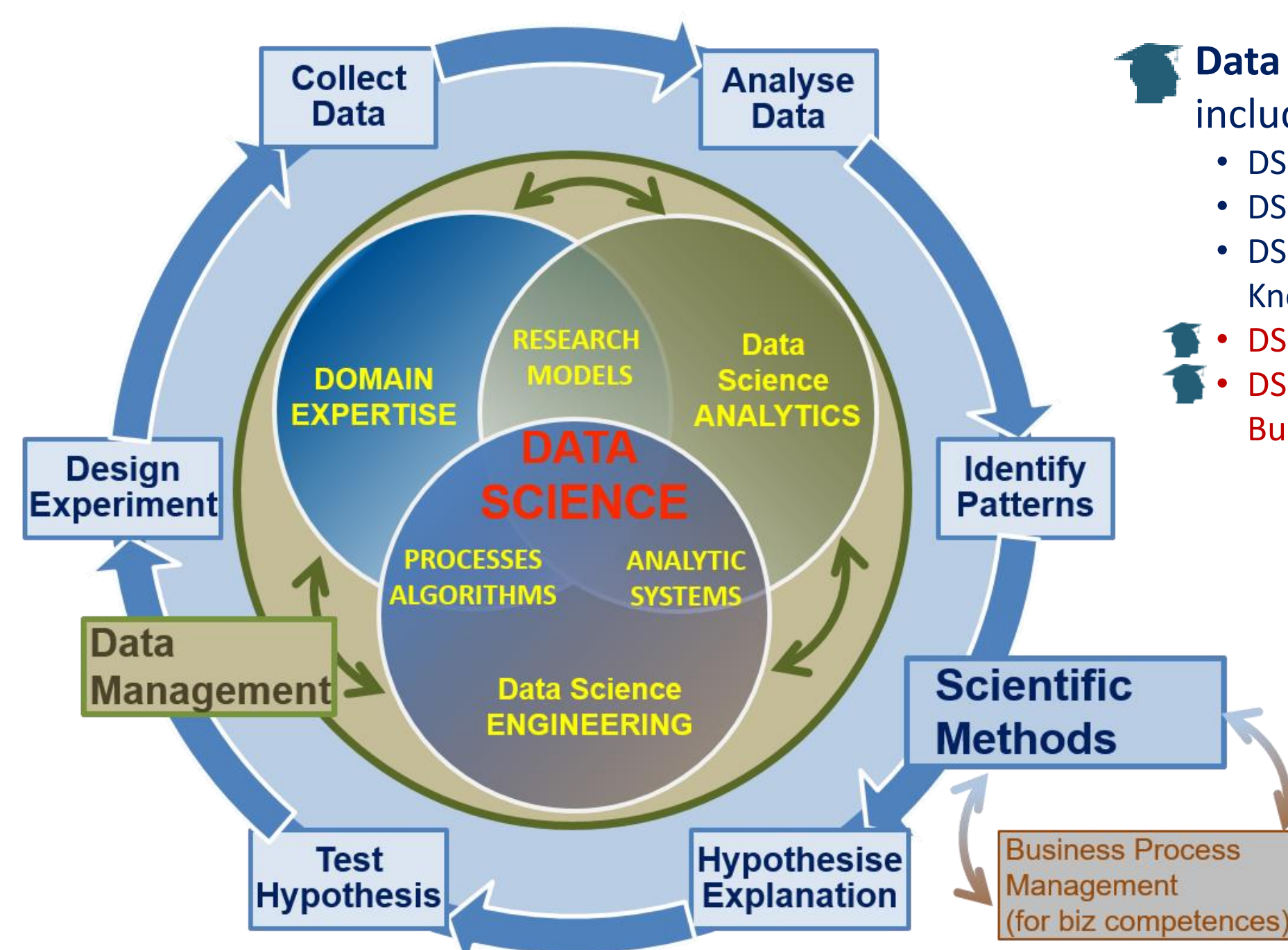
- CF-DS – Data Science Competence Framework
 - DS-BoK – Data Science Body of Knowledge
 - MC-DS – Data Science Model Curriculum
 - DSPP - Data Science Professional Profiles
 - Data Science Taxonomy and Scientific Disciplines Classification
- Service and operational components of the Data Science professional ecosystem
- Community Portal (CP) including
 - EOEE - EDISON Online Education Environment
 - Education and Training Marketplace and Directory
 - Professional certification and career development support

Data Science Professional Profile Groups



DSP profiles defined in compliance with the European Skills, European Competences, Qualifications and Occupations (ESCO) Taxonomy and CWA 16458 (2012) European ICT Professional Profiles Family Tree.

Data Science Competence Framework (CF-DS)



Data Science Competences

includes 5 areas/groups

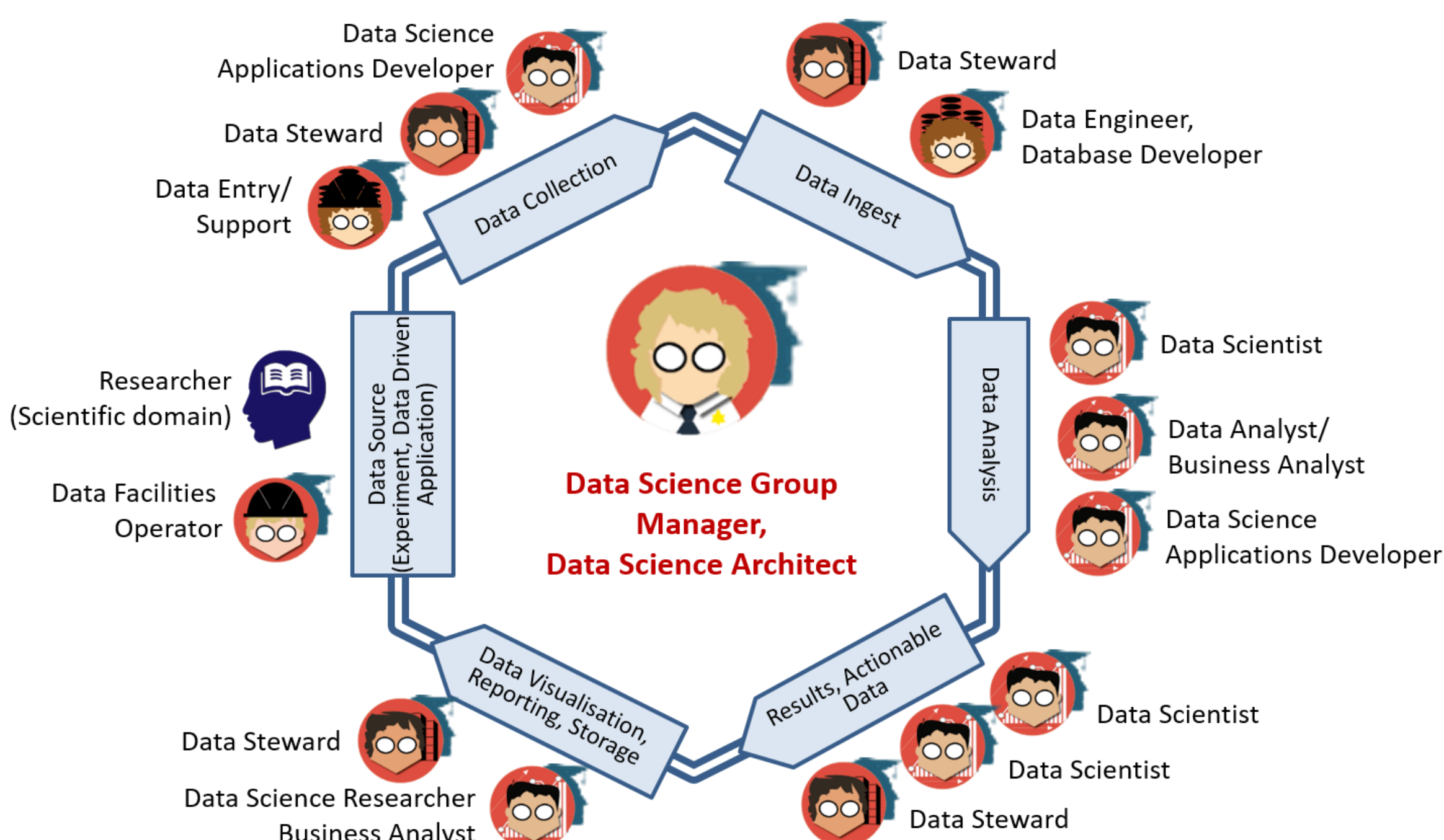
- DSDA - Data Analytics
- DSENG - Data Science Engineering
- DSDK - Domain Knowledge/Expertise
- DSDM - Data Management
- DSRM - Scientific Methods (or Business Process Management)

Scientific Methods

- Design Experiment
- Collect Data
- Analyse Data
- Identify Patterns
- Hypothesise Explanation
- Test Hypothesis

CF-DS is defined in compliance with the European e-Competence framework for ICT (e-CFv3.0 - 2015)

Building the Data Science Team

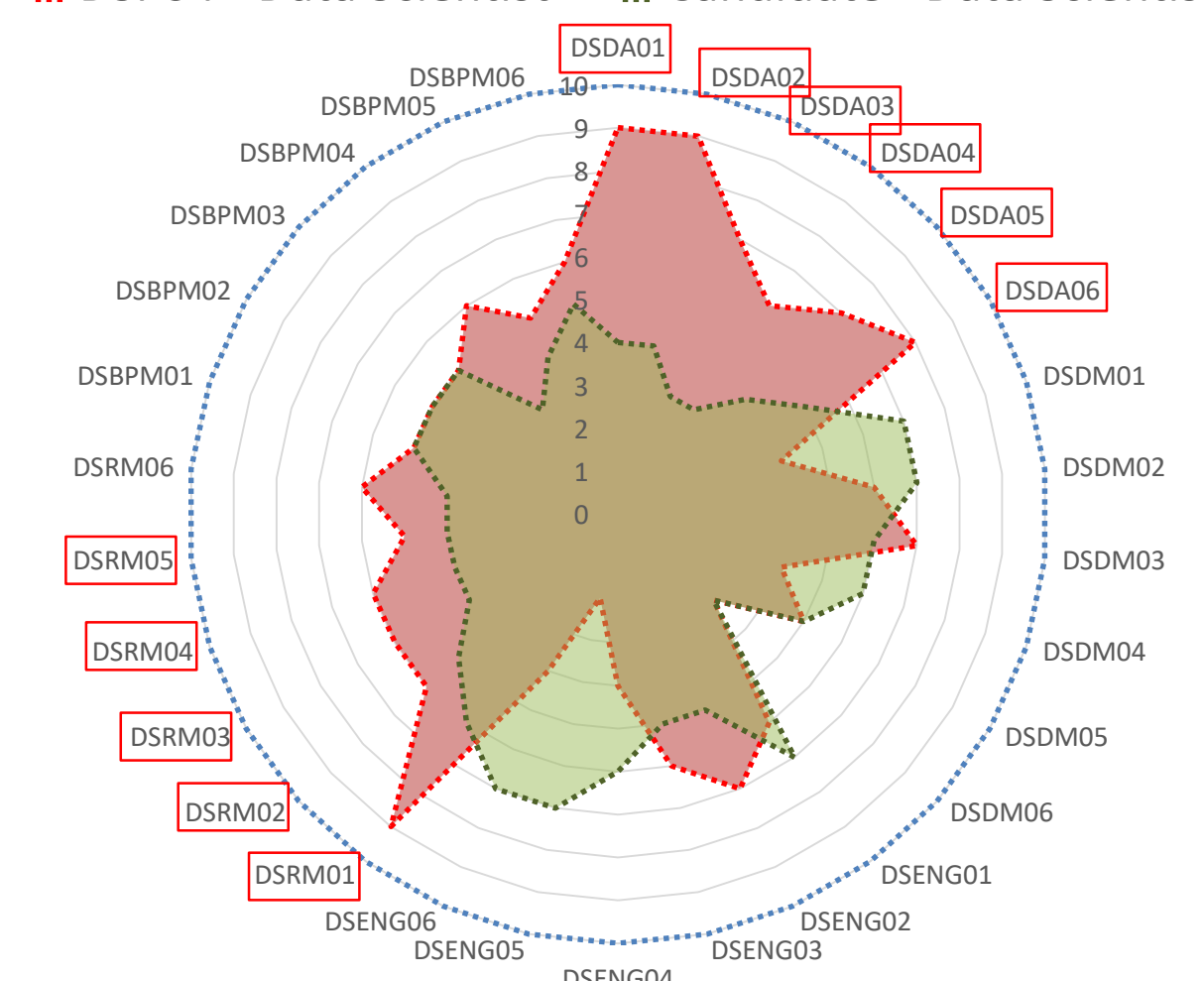


Acknowledgement

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MATCHING – COMPETENCE PROFILES

DSP04 - Data Scientist Candidate - Data Scientist



Individual Education/Training Path based on Competence benchmarking

Red polygon indicates the chosen professional profile: Data Scientist (general)

Green polygon indicates the candidate or practitioner competences/skills profile

Insufficient competences (gaps) are highlighted in red

- DSDA01 – DSDA06 Data Science Analytics
- DSRM01 – DSRM05 Data Science Research Methods

Can be used for team skills match marking and organisational skills management

[ref] For DSP Profiles definition and for enumerated competences refer to EDSF documents CF-DS and DSP Profiles.

For more information refer to EDISON documents

EDSF - <http://edison-project.eu/edison-data-science-framework-edsf>

CF-DS: <http://edison-project.eu/data-science-competence-framework-cf-ds>

DS-BoK: <http://edison-project.eu/data-science-body-knowledge-ds-bok>

MC-DS: <http://www.edison-project.eu/data-science-model-curriculum-mc-ds>

DSP Profiles: <http://www.edison-project.eu/data-science-professional-profiles-dsp>