## 8 Skill: 4 transversal skills + 4 GIS skills

### TRANSVERSAL SKILLS

**T1: ANALYTICAL AND CRITICAL THINKING**

- Creative Thinking
- Knowledge Management
- Model Building
- Problem-Solving Skills
- Research Skill
- Technical Writing
- Technological Literacy
- Systems Thinking

**T2: BUSINESS COMPETENCIES**

- Ability to See the "Big Picture"
- Business Understanding
- Buy-in/Advocacy
- Change Management
- Cost Benefit Analysis/ROI
- Ethics Modeling
- Industry Understanding
- Legal Understanding
- Organizational Understanding
- Performance Analysis and Evaluation
- Visioning

**T3: INTERPERSONAL COMPETENCIES**

- Coaching
- Communication
- Conflict Management
- Feedback Skills
- Group Process Understanding
- Leadership Skills
- Questioning
- Relationship Building Skills
- Self-Knowledge/Self-Management

**T4: TECHNICAL COMPETENCIES**

- Geospatial Sensor
- Cartography / Graphic representation
- Computer Programming Skills
- GIS Theory
- Photogrammetry
- Topology
- Communication network
- Store technology -included data formats-
- Spatial refenence system
- Mobile
- Scale and resolution

## GIS SKILLS

The GIS SKILLS describes geospatial intelligence competency and practice in terms of key job tasks and essential knowledge, skills, and abilities required for a professional to be successful. These are organized into **four competency areas as described below**.

**S1 SOURCE**: describes the knowledge necessary to collect, manipulate and manage data using geospatial equipment, techniques, and methods. In particular, use of basic geographic information systems (GIS), global positioning systems (GPS), surveying and cartographic skills.

Ability to Assess
Metadata
Open data
Georeferencing
Data coming from GPS, drone, radiometer, spectral camera… and performing data corrections as needed.

**S2 STORE**: describes the knowledge required to acquire, manage, retrieve, and disseminate data to facilitate integration, analysis, and synthesis of geospatial information. Ensure quality of data and product meets professional and industry standards.

Big data
Data model/Cloud
Validation processes
Data integrity
Data maintenance/Data Protection

**S3 ANALYSIS**: describes the knowledge necessary to ensure the various elements and approaches of GIS and analysis are properly understood in order to successfully capture, store, manage, and visualize data that is linked directly to a location. Ability to think spatially and perform spatial analysis on geographically referenced data. Modeling of data and proposal of prototypes or scenarios.

Spatial information
Thematic information
Tools

**S4 DATA GEOMATICS**: describes the ability to create effective visual, tabular, and analytical products i.e. maps, graphs, charts, statistics, databases, tables and models. Using the cartographic and visualization principles to generate products that represent information about the physical environment and can be easily understood by decision-makers.

Visualization -2D, 3D, VR…-.
M2M
Dashboard
Applications