

## How TERN Data Infrastructure works

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#### **TERN's infrastructure for ecosystem science**













## Data Management Challenges Emerging EO informatics

Estimated storage and processing needs and opportunities for the next decade

- Increasing volume: spatial, temporal and spectral resolution and number of sensors
- Increasing velocity: near real time applications and automation
- Increasing variety: best practice processing and integration of disparate sources





#### **TERN e-Research Approaches**

#### Working well:

- Domain specific data management
  - Data and meta-entry tools
  - Metadata standards
  - Open standards for data delivery
- Flexible licensing policy
- Links to national research data catalogue / citable data (with DOIs)
- Scalable and replicable infrastructure
- Progress on reduced duplication across jurisdictions
- Access to e-Infrastructure

#### Not so well:

- Domain specific requirements / Responsiveness/ Prioritisation
- Access to resources/skills as a service model
- Service performance? (or service hierarchy)
- Research data policy/infrastructure:
  alignment/planning/compliance/governance



With flexibility/on demand/service focus

### Moving forwards – sustaining long term science

# •Global shift to collaborative data , algorithms and participatory resources:

