ICOS Station labelling process

Rationale and procedure
ICOS mission

“To provide harmonised high precision data on carbon cycle and greenhouse gas budgets in Europe and adjacent regions”
ICOS quality label

Key characteristics of ICOS are:

• **high quality and standardization** of measurements

• Network design to **cover as much as possible variability in climate and land use** throughout Europe
ICOS quality label

An ICOS station must therefore

→ perform at the required quality level
→ fit into the ICOS network design
ICOS station labelling process

• A procedure has been created to assess the suitability of a station to become an ICOS station and receive “ICOS label”

• Aim to have as many stations as possible in the ICOS networks while guaranteeing high quality and standardization
Application

• Consists of three steps:
  – STEP 1: formal application & station construction (1-4 weeks)
  – STEP 2: test period (4-6 months)
  – STEP 3: Formal decision by the ICOS General Assembly

• 6 months to 1 year to complete

• ICOS requests a financial contribution of applicant to cover analysis and administrative costs
Before applying

It is required that a station is

1. Approved by its host institution
2. Approved by the national government
Before applying

• The *country’s GA representative* sends a letter to ICOS Head Office stating that
  1. there is a *long-term commitment of financial resources*
  2. the station is consistent with national Research Infrastructure strategy

*This to avoid that after the station labelling process the station isn’t able to obtain the necessary funding*
The process in short

The labelling process consists of three steps:

STEP 1: formal application & station construction
STEP 2: test period
STEP 3: formal decision by the GA
The process in short

**STEP 1: Formal application**
- PI submits application form describing site characteristics to TC.
- TC evaluates the application and writes proposal on station acceptance for Director General.
- DG informs applicant about GO/NOGO statement

**STEP 2: Test period**
- Period to familiarize station staff with ICOS methodologies, quality systems, data transmission, rights and responsibilities etc.
- Period may be extended if needed.
- TC writes a report containing final recommendations and confirmation of station class (1 / 2).

**STEP 3: Formal decision by the GA**
- Based on TC report DG prepares decision proposal for the GA.
- ICOS station label is granted by formal decision of the GA.
- DG informs all involved actors of final decision.
Roles

- **Station Principal Investigator (PI):** submits an application with written approval of *host institution* and *Focal Point*
- **Thematic Centre (ATC, ETC, OTC):** evaluates application and test period and reports to ICOS Director General
- **ICOS Director General (DG):** informs all actors (*PI, FP and Monitoring Station Assembly - MSA, Research Infrastructure committee - RI Com*) about the report. Prepares a decision proposal for the ICOS General Assembly
- **ICOS General Assembly (GA):** only body habilitated to deliver the *ICOS label.*
Role of the Focal Point

• Focal Point acts as go-between during process:
  – providing information on available long-term national funding
  – checking consistency with national Research Infrastructure strategy
  – providing information on construction and operational costs estimates
  – communicating with ICOS Head Office and General Assembly representative
  – Support in administrative steps
Last recommendations

• It is recommended to contact the TC and discuss the station in terms of network design and terrain characteristics first.

• TC can consult PI in preparing the best possible application.
Thematic Centre Contacts

• Ecosystem network: Dr Dario Papale, ICOS Ecosystem Thematic Center, c/o DIBAF, University of Tuscia, Largo dell’Università snc Blocco D, 01100 Viterbo, Italy. (darpap@unitus.it)

• Atmosphere network: Dr Leonard Rivier, ICOS Atmosphere Thematic Center, LSCE, Orme les Merisiers, point courrier 129, CEA-Orme des Merisiers,, F-91191 GIF-SUR-YVETTE CEDEX France. (leonard.rivier@lsce.ipsl.fr)

• Oceanic network: Dr Truls Johannessen, Geophysical Institute, University of Bergen, Allegt. 70, 5007 Bergen, Norway. (truls.johannessen@gfi.uib.no)