



**GTTN**

Global Timber  
Tracking Network

## **Developing an expert database and a reference database in GTTN**

Thursday October 19th, 2017  
in Washington D.C., USA

Tommi Suominen, EFI  
Meaghan Parker-Forney, WRI

[www.globaltimbertrackingnetwork.org](http://www.globaltimbertrackingnetwork.org)

# GTTN aims



GTTN aims to be a global initiative with the primary aim of the promotion of the integrated use of innovative technologies such as DNA fingerprinting and stable isotope analysis together with other existing technologies to combat illegal logging and associated trade worldwide.

Building on the results and experiences of the first phase, GTTN II will continue to further develop and expand the network, seek new partnerships, new funding sources and (active) collaboration.

GTTN will contribute to the development of two main services: an **Expert Catalogue** and a **Reference Database**

# The past and present



GTTN phase 2, under coordination of EFI, is continuing the work that was started in GTTN phase 1, under coordination of Bioversity.

Several different service prototypes were created by Richard Bruskiwich (then with Bioversity), with the software solution changing over time as the needs of potential users got further elaborated.

WRI asked Richard to simplify the last GTTN prototype, the result of which was the model for the solution that was re-implemented by WRI as the service providers directory (SPD).

WRI is planning to launch the SPD as a tool under its Forest Legality Alliance website <http://www.forestlegality.org>

# GTTN aims - two main services



## The Expert Catalogue: interested

- to provide external users (e.g. timber industries, public authorities) with the
- **information on which technology** (wood anatomy, DNA test, stable isotopes) is appropriate and available to check their specific claim (declared tree species and / or geographic origin) **and**
- **whom to contact** to perform the testing along with the contact's expertise (e.g., expertise working on X species)

## The Data Repository:

- to provide internal users (groups that:
  - have put their data into the data base,
  - signed a data sharing agreement,
  - successfully participated in ring tests for standardisation and
  - are ready to provide the lab services) with
- safe password protected access to a data repository centre on geographic reference data (genetics + isotopes).



# The Expert Catalogue

The GTTN database should **provide users** along the supply chain **with information on species identification and the verification of the origin** (country, region, concession) of wood and wood products. (Expert database)

Furthermore, it should **provide information on available scientific methods and tools** (genetics, stable isotopes, spectrometry and wood anatomy), **and contact information** on certified(/participating?) labs for sample analysis.

An important database aspect is ensuring that the database and the **content are secure and cannot be misused.**

The development of the expert database should be a priority. ***There is a real need for enforcement authorities to know from where they can get information.***

# The WRI adaptation of GTTN work: The Service Providers Directory



- The data contained is the TRAFFIC data, appended to by WRI with IAWA data.
- An update of the TRAFFIC dataset (by Traffic) has been under way, which we wish to incorporate
- In the spirit of the GTTN aim to *"continue to further develop and expand the network, seek new partnerships, new funding sources and (active) collaboration"* - WRI and EFI have teamed up to together launch and improve the Service Providers Directory and for GTTN to design the necessary extensions to the inclusion of reference data and an interface for its access.
- the following slides present the WRI Service Providers Directory as its development version stands currently (only sample datasets used for slides)

# Service Providers Directory



## Species Names

Helper description of filter (optional)

## Common name

Filter description text

## Expertise

Helper description of filter (optional)

## Lab location

Continent and Country Information

**APPLY**

**RESET**

# Service Providers Directory



## Common name

Mahogany

- Any -

Filter description text

## Expertise

- Any -

Helper description of filter (optional)

## Lab location

- Any -

Continent and Country information

APPLY

RESET

Displaying 1 - 2 of 2

▶ IVALSA

▶ IVALSA, Trees and Timber Institute



# Service Providers Directory



Displaying 1 - 2 of 2

▼ IVALSA

Contact Details	<b>Person:</b> Dr. Nicola Macchioni, Head Of The Wood Anatomy Laboratory At Ivalsa - Cnr, Simona Lazzeri, Laboratory Technician, Dr. Alan Crivellaro, Contract Researcher
General Details	<b>Email:</b> lazzeri@ivalsa.cnr.it, crivellaro@ivalsa.cnr.it
Microscopic Slides	<b>Address:</b> Istituto per la Valorizzazione del Legno e delle Specie Arboree - Consiglio Nazionale delle Ricerche (Trees and Timber Institute - National Research Council), (FLw), Via Madonna del Piano, 50019 Sesto Fiorentino (Florence). Italy.
Samples for Exchange	<b>City:</b> Florence
Sample Availability	
Samples Available	
Samples Wanted	
Sample Catalogue	
Samples List	
Testing Expertise	
Testing Expertise Species	
Remarks	
Additional Details	

▶ IVALSA, Trees and Timber Institute

# Service Providers Directory



Lab location

Europe

- Any -

Continent and Country Information

APPLY

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Displaying 1 - 13 of 13

▶ Customs Port of Rotterdam and Customs Laboratory

▶ European Plant Science Laboratory (EPSL)

▶ IVALSA

▶ IVALSA, Trees and Timber Institute

▶ Laboratory for Wood Biology and Xylarium, Royal Museum for Central Africa

▶ Naturalis Biodiversity Center

▶ Naturalis Biodiversity Center, Leiden University

▶ Royal Botanic Gardens, Kew

▶ Timber collection, National Museum Wales

▶ University of Natural Resources and Life Science Vienna

▶ University of Natural Resources and Life Sciences – BOKU

▶ University of Vienna; Vienna Institute for Archaeological Science (VIAS)

▶ University of Warsaw Botanic Garden

# Service Providers Directory



Expertise

Visual

- Any -

Helper description of filter (optional)

Lab location

- Any -

Continent and Country information

**APPLY**

**RESET**

Displaying 1 - 15 of 15

- ▶ Commonwealth Scientific and Industrial Research Organization
- ▶ Commonwealth Scientific and Industrial Research Organization 1
- ▶ Customs Port of Rotterdam and Customs Laboratory
- ▶ European Plant Science Laboratory (EPSL)
- ▶ Facultad de Ciencias Agrarias y Forestales
- ▶ IVALSA, Trees and Timber Institute
- ▶ Laboratory for Wood Biology and Xylarium, Royal Museum for Central Africa
- ▶ Naturalis Biodiversity Center, Leiden University
- ▶ Queensland Department of Agriculture
- ▶ Queensland Herbarium

# Development steps before launch:



Change direct visibility of contact information to a "request for expertise", sending an email detailing the case needing expertise, so that the questions to the experts are useful and answerable

Need to develop a scheme for data updating by expertise providers themselves

Review and update inventoried expertise data from GTTN phase 1 and IAWA

Displaying 1 - 2 of 2

▼ IVALSA

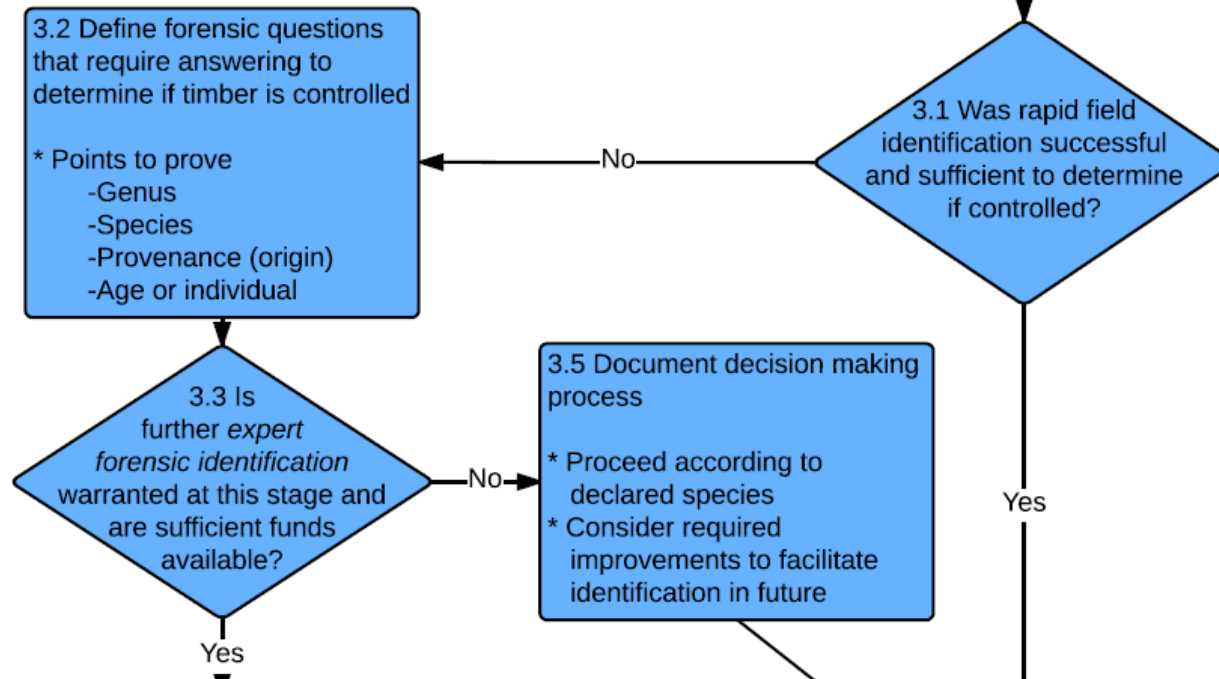
Contact Details	<b>Person:</b> Dr. Nicola Macchioni, Head Of The Wood Anatomy Laboratory, Technician, Dr. Alan Crivellaro, Contract Researcher
General Details	<b>Email:</b> lazzeri@ivalsa.cnr.it, crivellaro@ivalsa.cnr.it
Microscopic Slides	<b>Address:</b> Istituto per la Valorizzazione del Legno e delle Specie Legnose (Wood Research Institute - National Research Council), (FLw), Italy.
Samples for Exchange	<b>City:</b> Florence
Sample Availability	
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Samples Wanted	
Sample Catalogue	
Samples List	
Testing Expertise	
Testing Expertise Species	
Remarks	
Additional Details	

# Next development steps (2): improving usability - implementing work flows



In the port for emerging issues  
Requirement for, and availability of, additional security measures (e.g. locks, seals, guards, CCTV)  
Availability and location of appropriate storage areas for shipments, both short and long term  
Requirement for, and availability of, suitable equipment and manpower for moving shipments

- \* Observe claimed identification on declaration, consider synonyms and common names
- \* Observe form of the timber
  - e.g. Raw or sawn logs, veneer, finished products
- \* Undertake *rapid field identification* of the timber
  - Use all tools and support available
- \* Take notes, photographs and preserve the scene
- \* Consider other evidence which could indicate probable origin of shipment
  - e.g. Newspapers in the container from a particular country
- \* If insects are found, consider consultation with quarantine experts who may be able to provide location information based on insect identification



# Thank you for your attention!

