



Introducing Source Certain

An introduction of how Source Certain's TSW Trace technology can benefit the timber industry by disrupting conventional paper or digital traceability

January 2023

AGENDA

1. A brief introduction to Source Certain
2. What we do
3. How we want to disrupt in the timber industry
4. Where Source Certain excels & how the timber industry can benefit from our technology

PROVENANCE SCIENCE SERVICES

- ✓ Australia's leading provenance laboratory verifying products back to farm, orchard, mine or FMU.
- ✓ Source Certain has implemented scientific programs to protect Australian food industries.
- ✓ We use our unique scientific methods to support criminal investigations. TSW Trace technology has legal precedent.



OVER TWO DOZEN STAFF AND GROWING - OUR CORE TECHNICAL TEAM



Dr R John Watling

Chief Scientist



Cameron Scadding

CEO & Managing Director



Rachel Scadding

Chief Operating Officer



Jenna Valentin

Head of Operations AU

Source Certain helping the UK government prevent stolen Ukrainian grain from making it to the market

27/06/2022 [Media releases](#)

Western Australian based science technology company Source Certain International Limited (Source Certain) is providing its provenance science technology to the UK government as part of a project to help combat...

[BIT.LY/3JDTJTE](https://bit.ly/3JDTJTE)

Source Certain continues work with Aus Wild Prawns for four more years

19/11/2021 [Media releases](#)

SCI 4-year project sures-up Australian Wild Prawn integrity Australia's wild prawn industry is continuing its work with Source Certain International (SCI) for another four years, taking another step toward guaranteeing...

[BIT.LY/3JAALXV](https://bit.ly/3JAALXV)

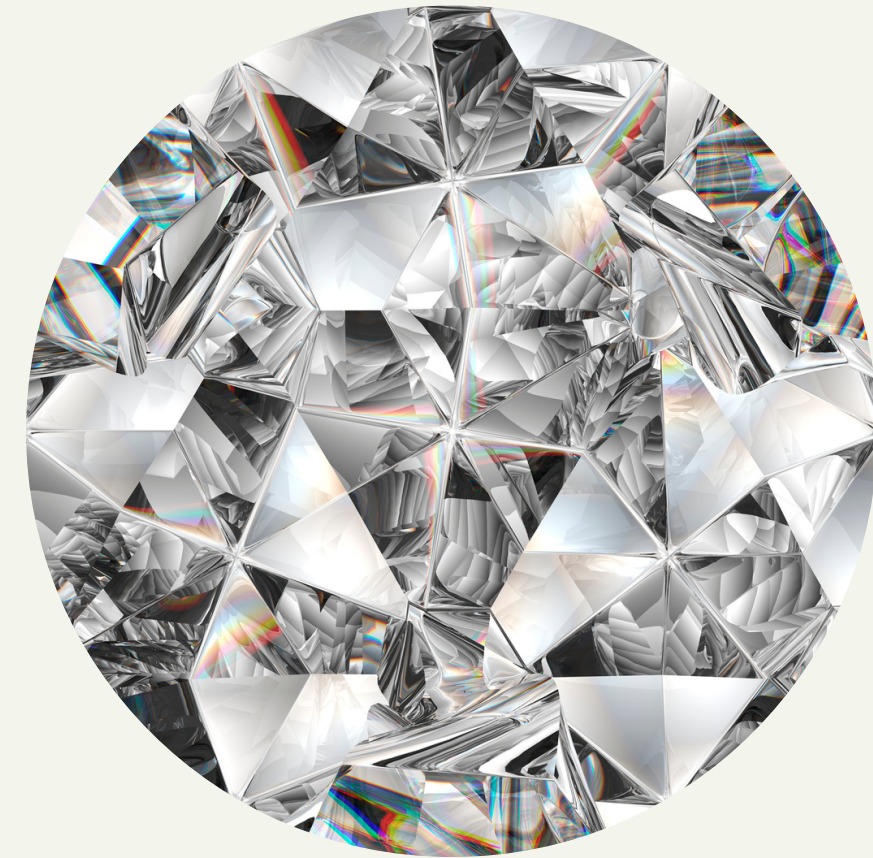


Source Certain to provide critical technology in new global certification for diamonds

02/08/2021

[Media releases](#)

Perth based sci-tech company to provide critical technology in new global certification for ethical and sustainable diamonds. Perth-based Source Certain International (SCI) today announced it will partner with SCS Global...



Source Certain announces partnership with Reid Fruits cherry producer

25/11/2020

[Media releases](#)

She mightn't be all apples, but she's all cherries for Tasmania's Reid Fruits as it deploys Laava's patented Smart Fingerprint secure label technology again this summerfruits season – building on...



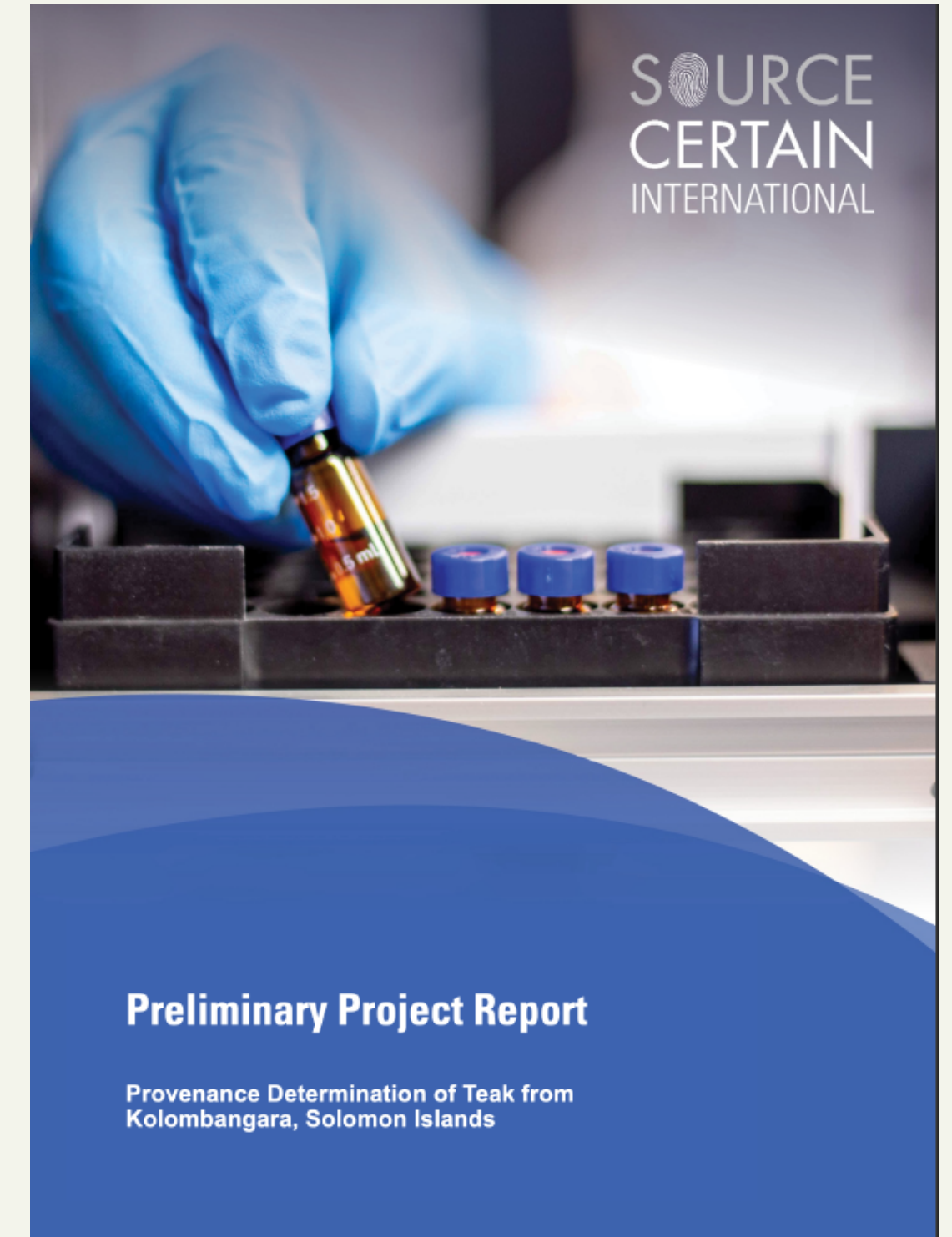
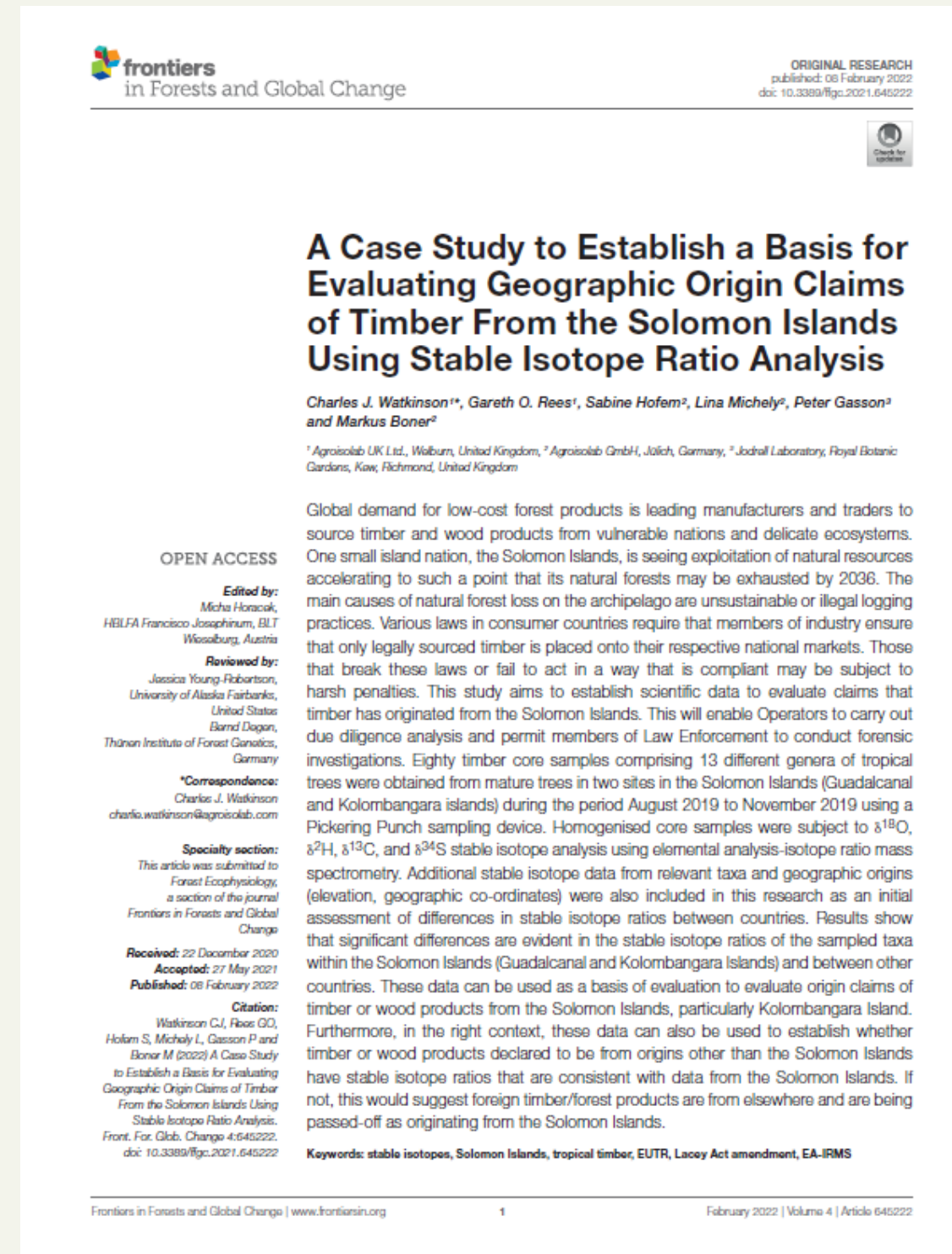
PROVIDING INDEPENDENT SCIENTIFIC PROOF OF ORIGIN

- Help businesses know what it is that they're actually receiving
- Support digital records and question them where anomalies are found
- Assist auditors by providing key information and discussion points for audits. If you know what to look for, auditing can be more directed.

Stable isotopes

v.s.

TSW TRACE®



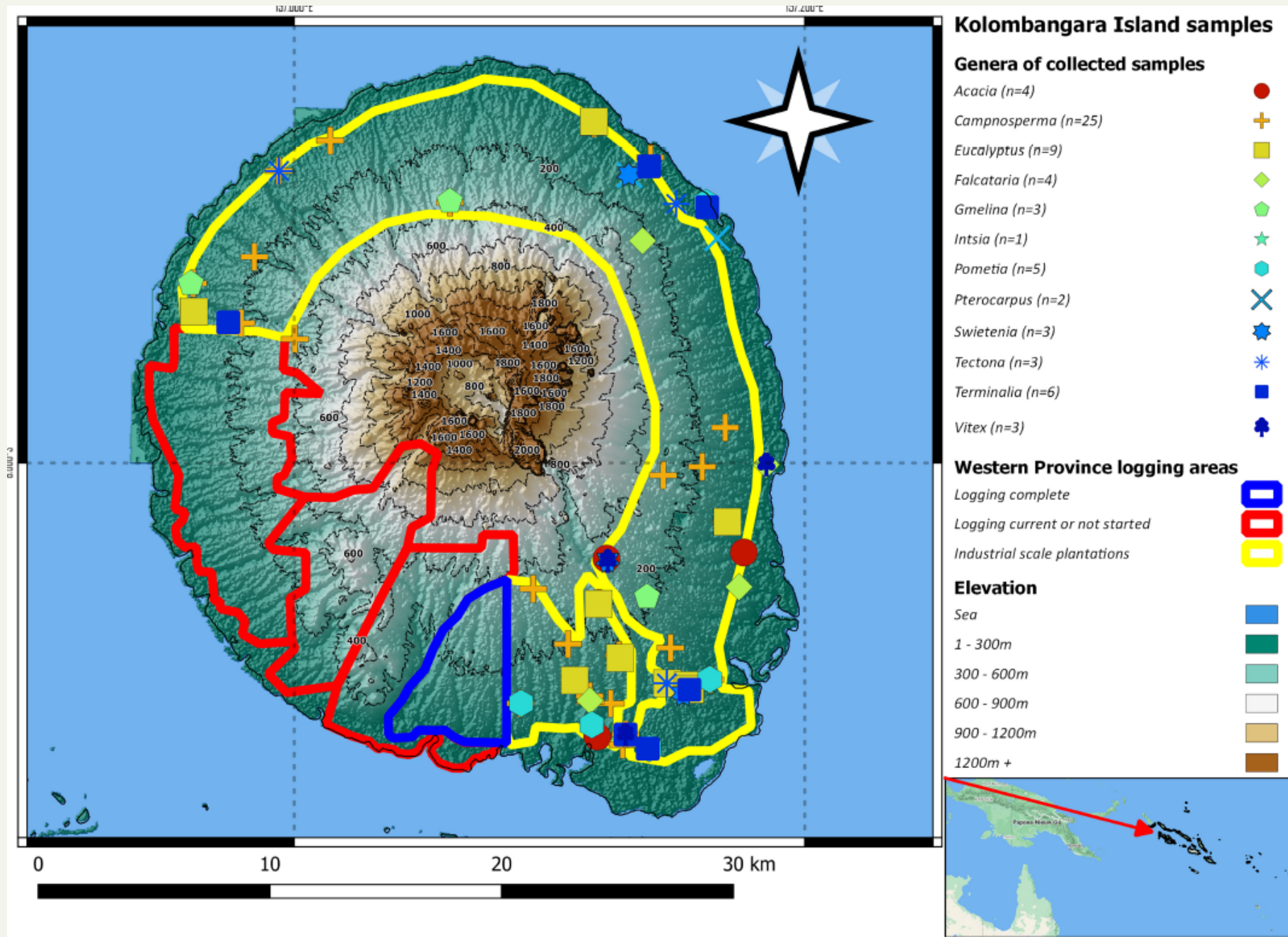
Preliminary Project Report

Provenance Determination of Teak from Kolombangara, Solomon Islands

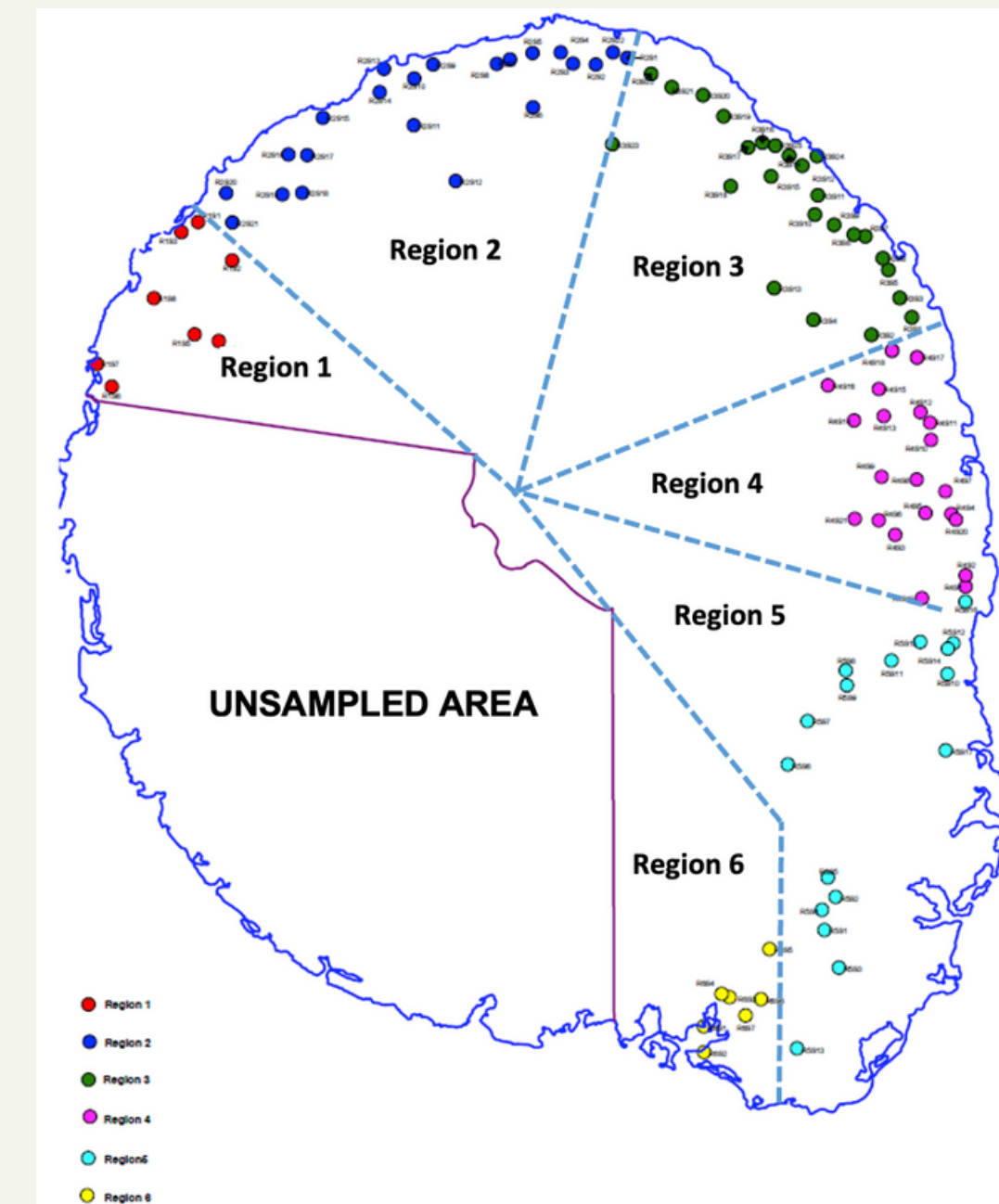
SAMPLING

Source Certain was able to analyse more samples due to the lower analytical costs of the TSW Trace method

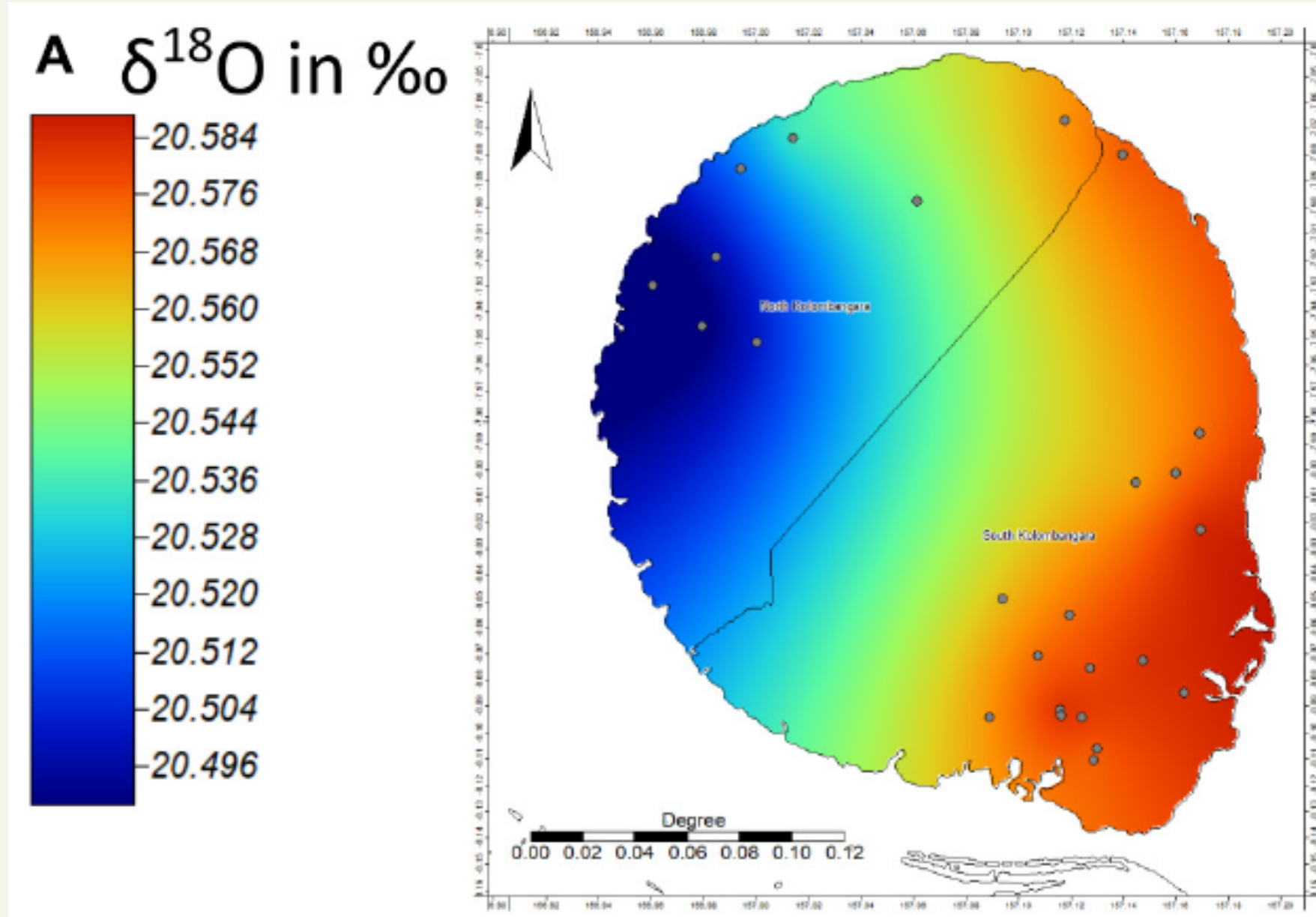
Stable isotopes



TSW TRACE®

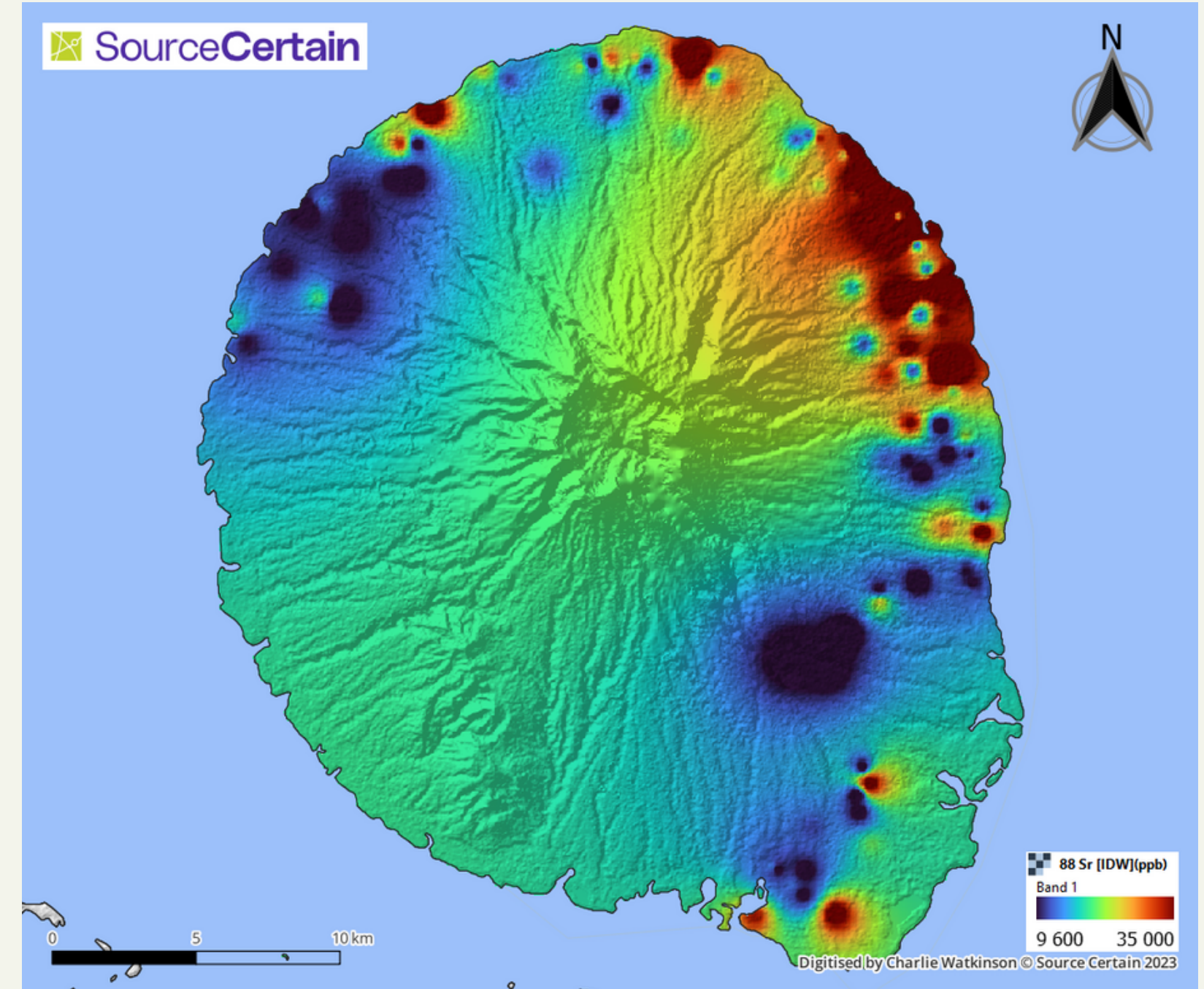


Stable isotope ratio (oxygen)



The stable isotope approach uses FOUR variables for origin, high preparation cost

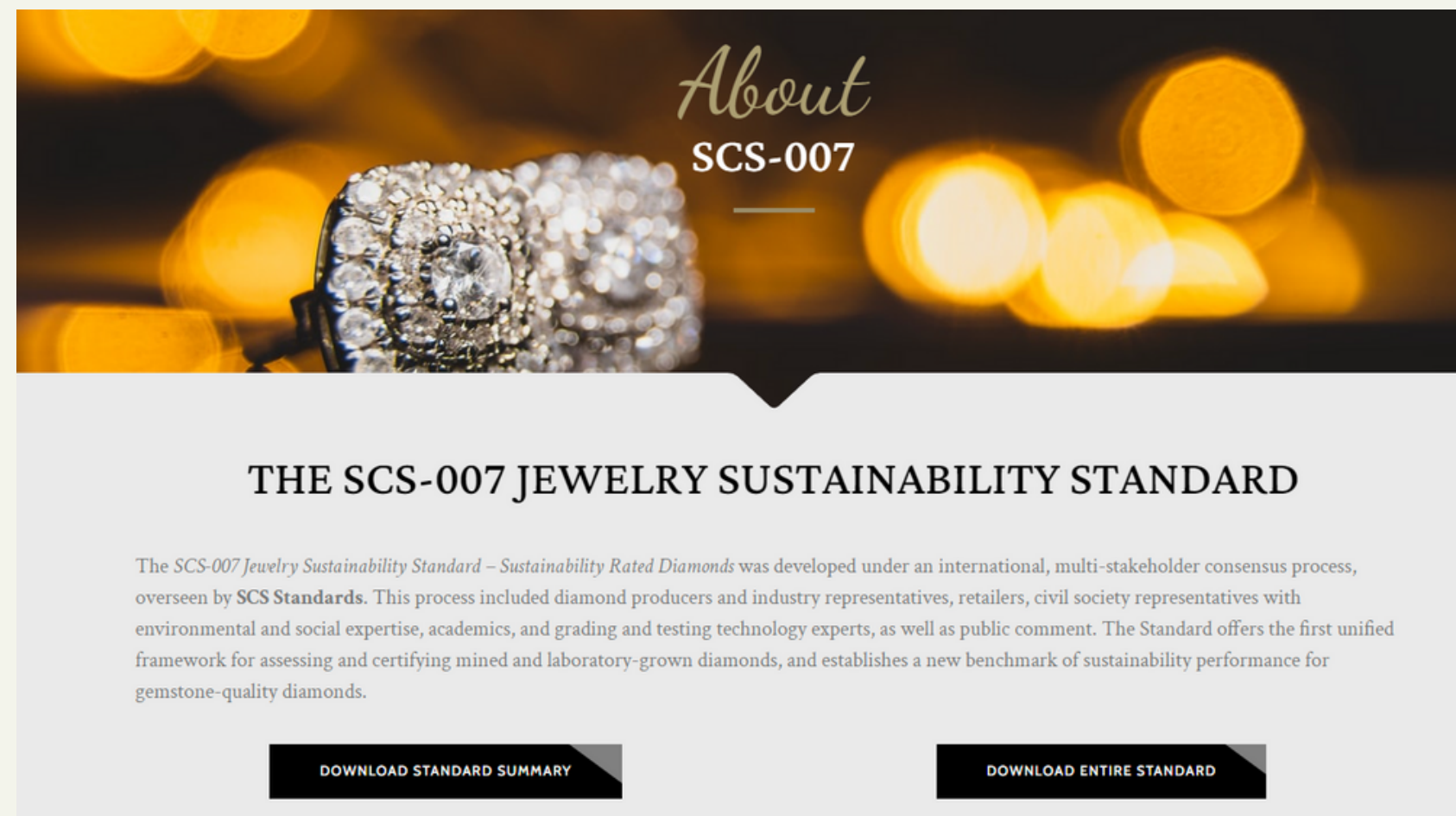
Strontium - TSW Trace



The TSW Trace approach uses up to 60 variables for geographic origin at a much lower preparation cost

Non-destructive, high-throughput analysis of diamonds using laser ablation

LA-ICP-MS is being used to verify the origin of diamonds back beyond the mine, the the kimberlite pipe they were produced in. A laser can take a spot sample as small as 100µm. This gives enough information to perform the test and is part of the SCS-007 standard.



About
SCS-007

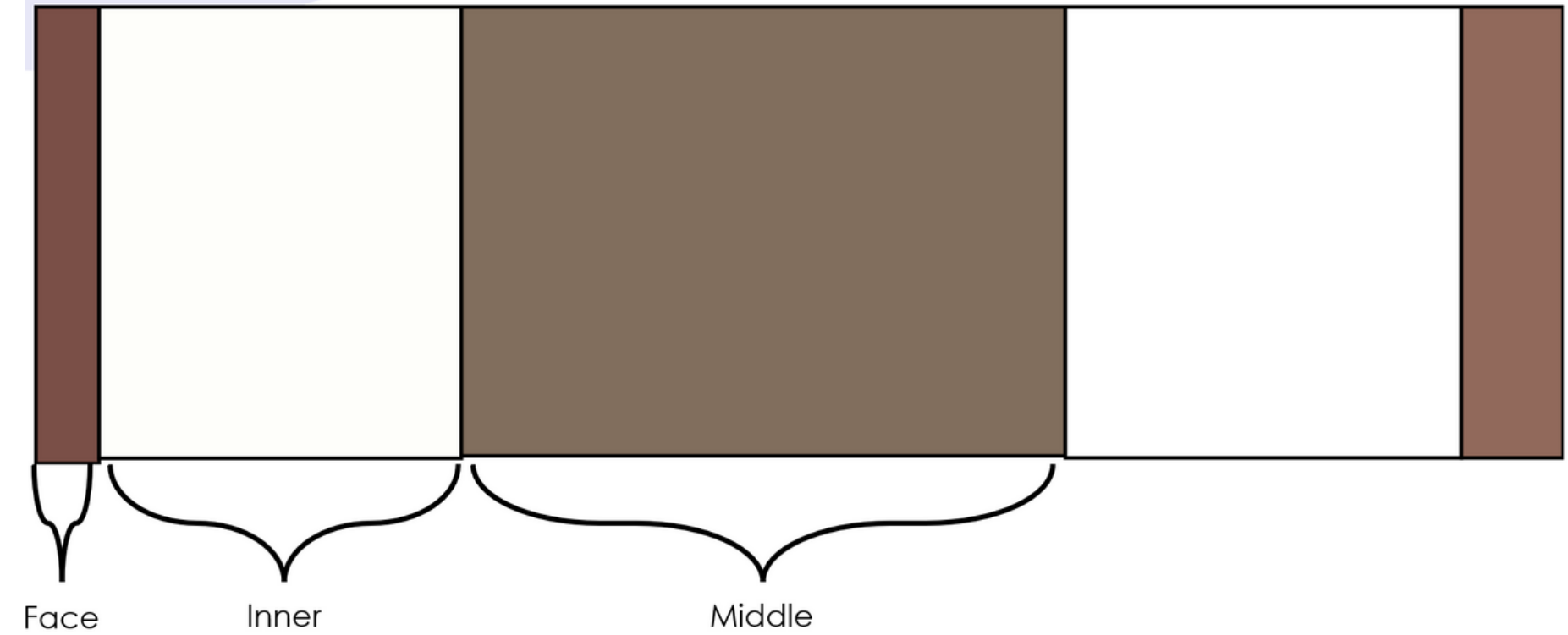
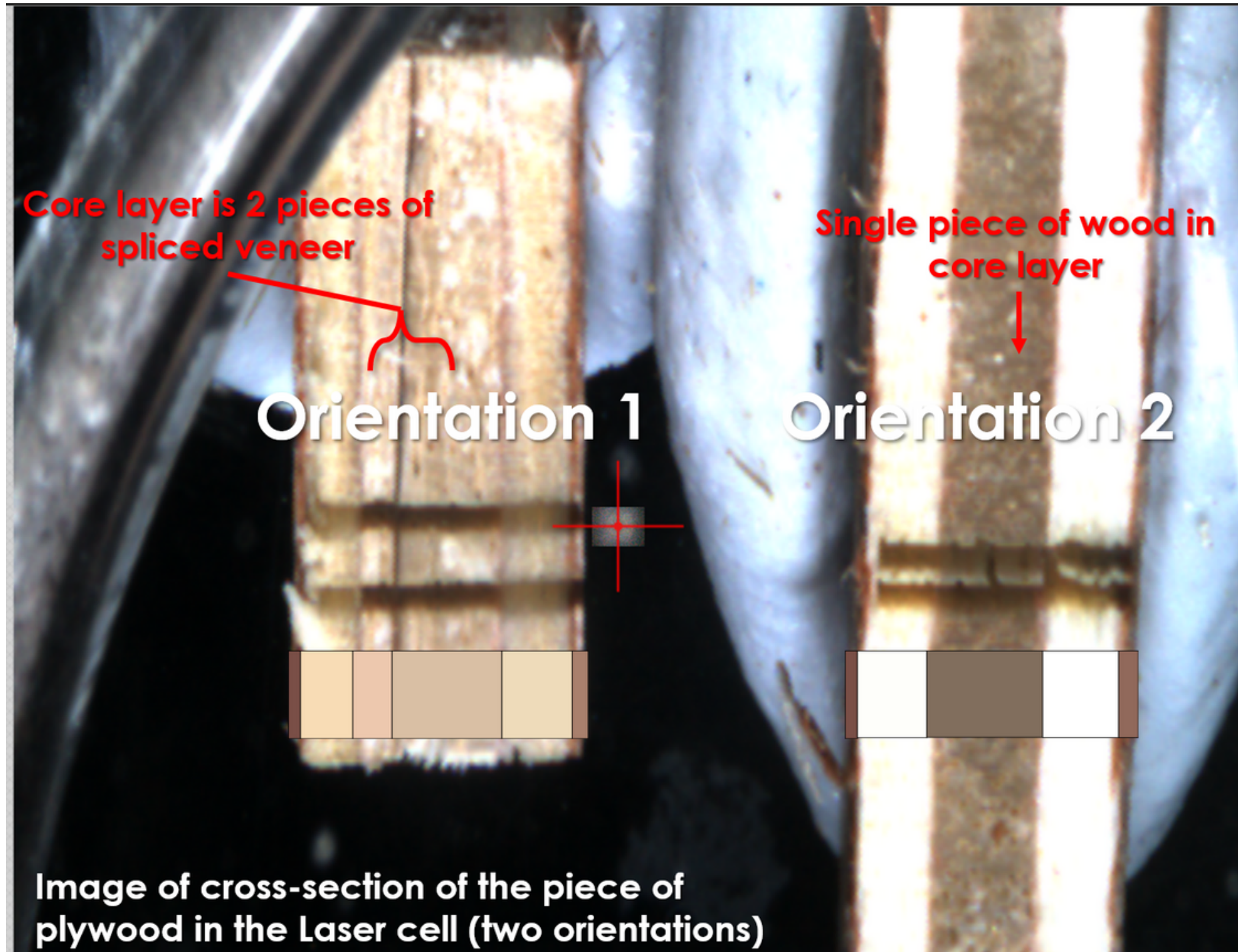
THE SCS-007 JEWELRY SUSTAINABILITY STANDARD

The *SCS-007 Jewelry Sustainability Standard – Sustainability Rated Diamonds* was developed under an international, multi-stakeholder consensus process, overseen by SCS Standards. This process included diamond producers and industry representatives, retailers, civil society representatives with environmental and social expertise, academics, and grading and testing technology experts, as well as public comment. The Standard offers the first unified framework for assessing and certifying mined and laboratory-grown diamonds, and establishes a new benchmark of sustainability performance for gemstone-quality diamonds.

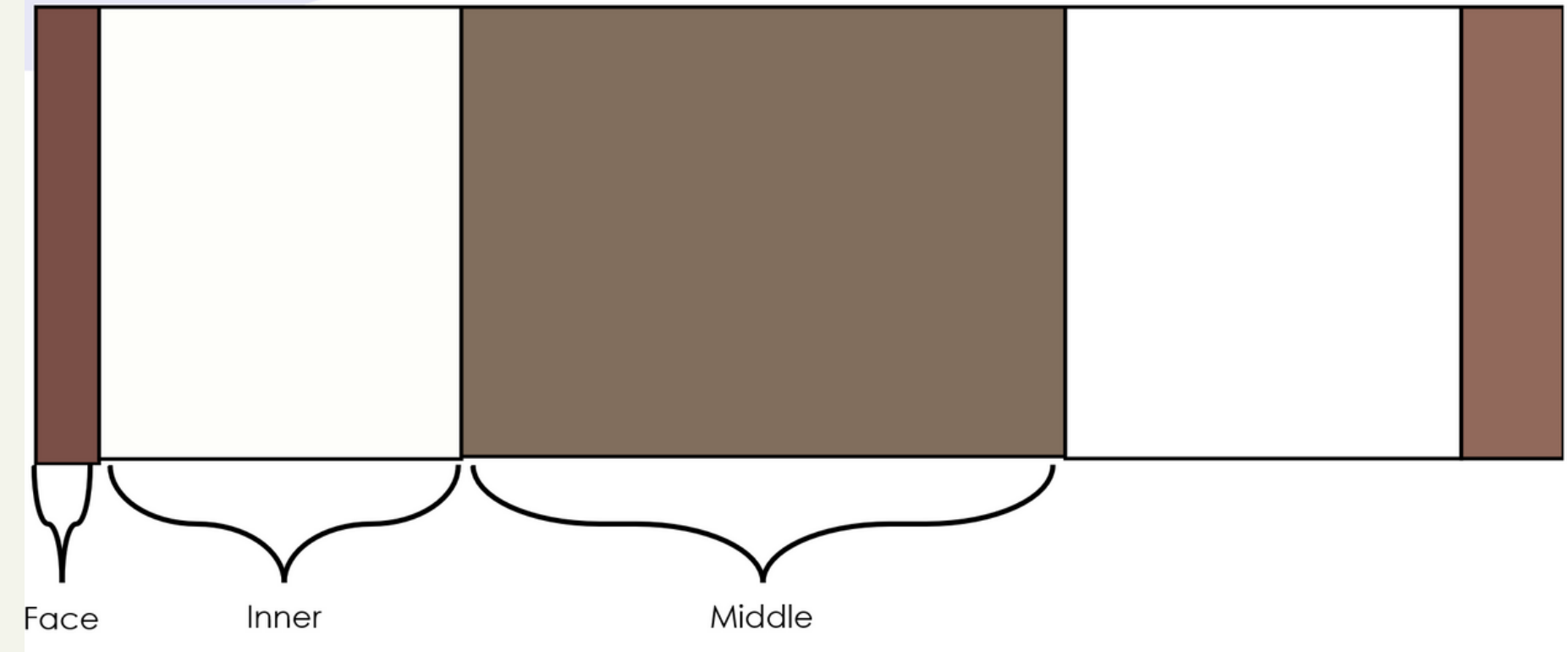
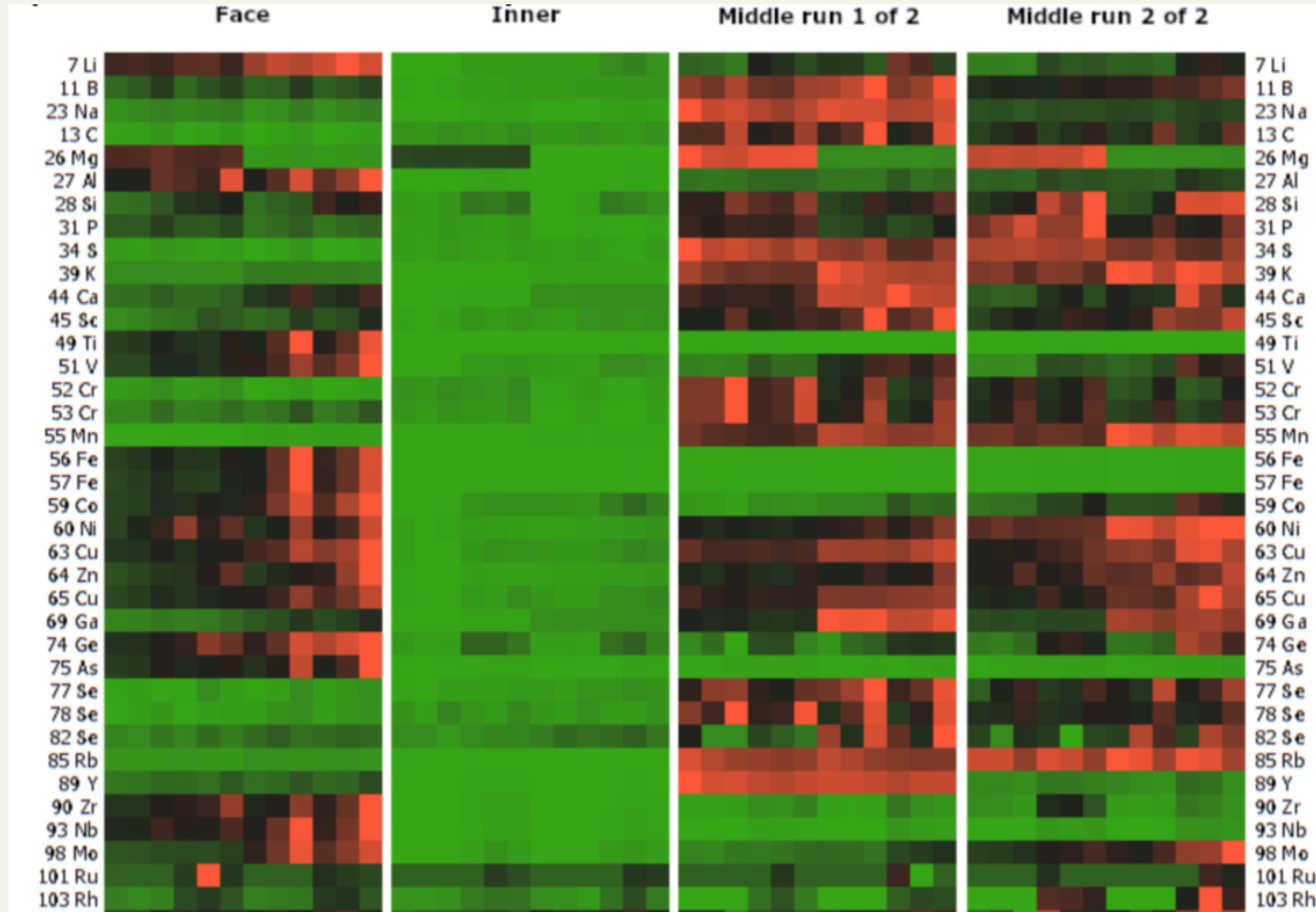
[DOWNLOAD STANDARD SUMMARY](#) [DOWNLOAD ENTIRE STANDARD](#)

Diamonds mounted in the laser system ready to be analysed to check their origin.

INITIAL TRIALS WITH PLYWOOD



INITIAL TRIALS WITH PLYWOOD



Results show clear differences in elemental profiles between the layers in plywood. This method takes very little preparation.



Thank you

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www.sourcecertain.com

