

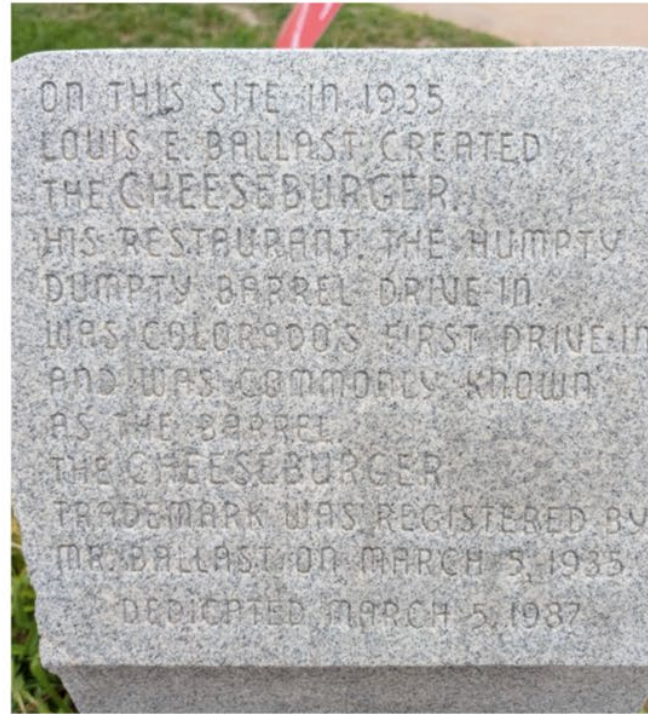
The Global Quantum Standards Landscape in 2026

ANSI Innovation Summit | Denver, CO

Austin S. Lin
Chair, United States National Committee
IEC/ISO JTC 3 - Quantum Technologies







INVESTMENT

\$17.6B

Public/ Private Investment (2025)



COST



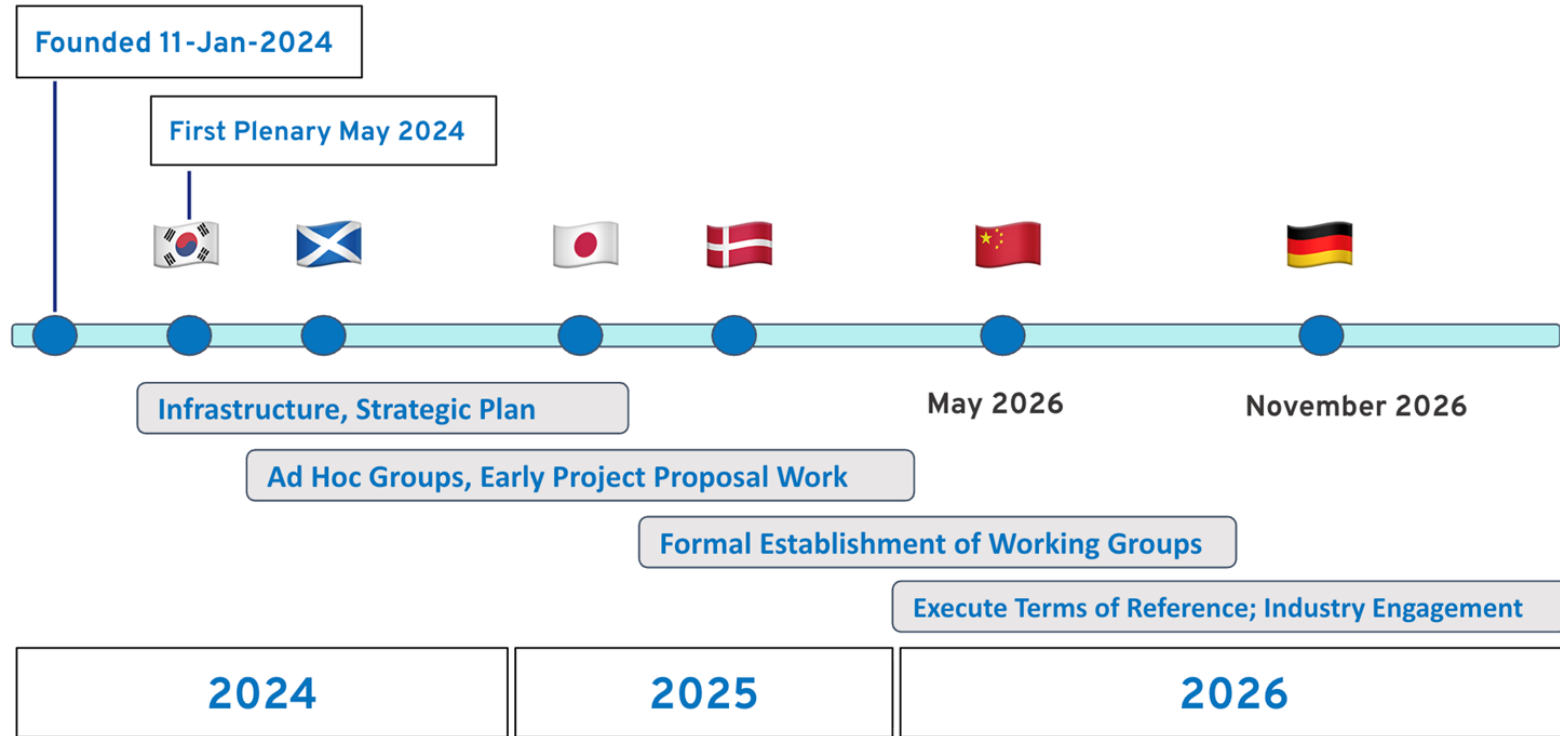
REVENUE

\$43B - \$71B

Projected Revenues (2035)

**Standardize for business impact,
not for the sake of standardization.**

Timeline of JTC 3: from Strategy to Execution



IEC/ISO JTC 3 Subgroups

Label	Title
Joint Subcommittees	
JSC 3A	Quantum computing
Working Groups	
WG 9	Terminology and quantities
WG 10	Quantum sensors
WG 11	Quantum computing supply chain
WG 12	Quantum computing benchmarking
WG 13	Quantum random number generators
WG 14	Quantum enabling technology
WG 15	Quantum Computing Terminology and Quantities
WG 16	Quantum Communication



United States
National Committee
of the IEC

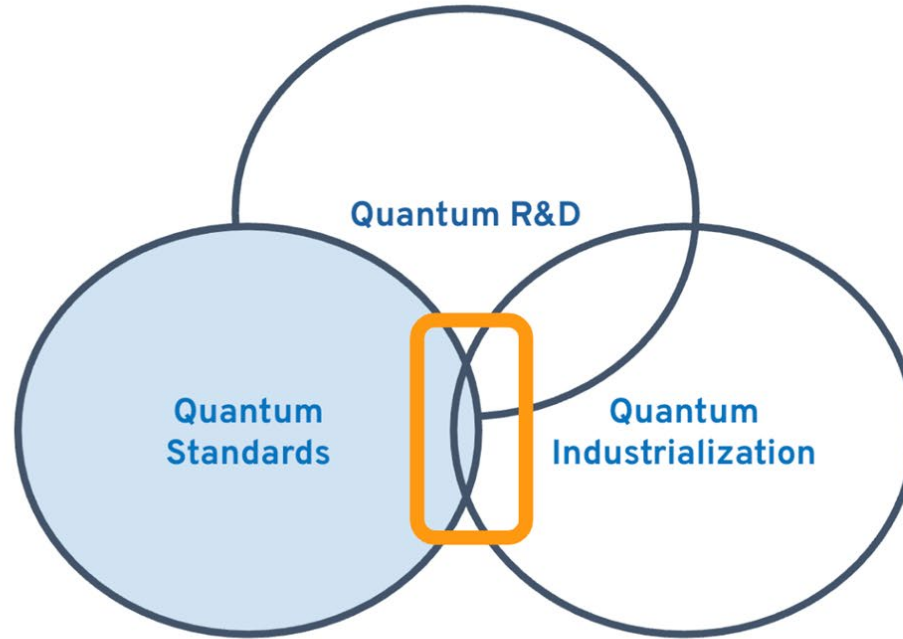
Publicly accessible
on IEC [JTC 3 Site](#)

Cost

Capacity

Risk

Enables Fundamental Science

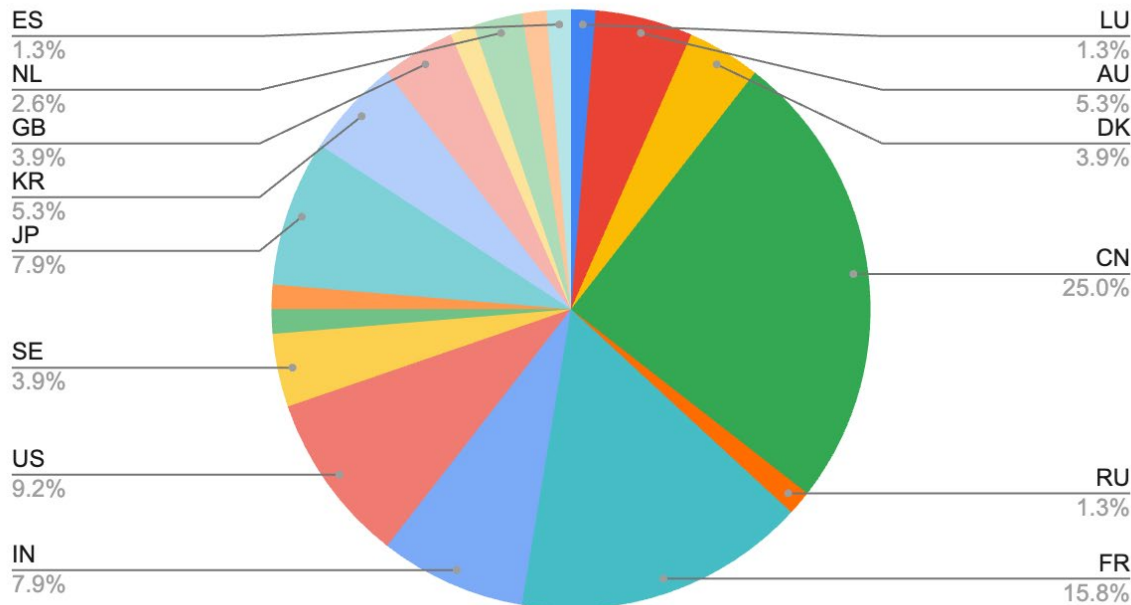


Enables Interoperability

Enables Commercial Scale

JTC 3 - Quantum Computing Supply Chain Working Group

WG 11 (N=76 members; 18 countries) - 21-Jul-2026



- 76 individual members
- 18 Countries

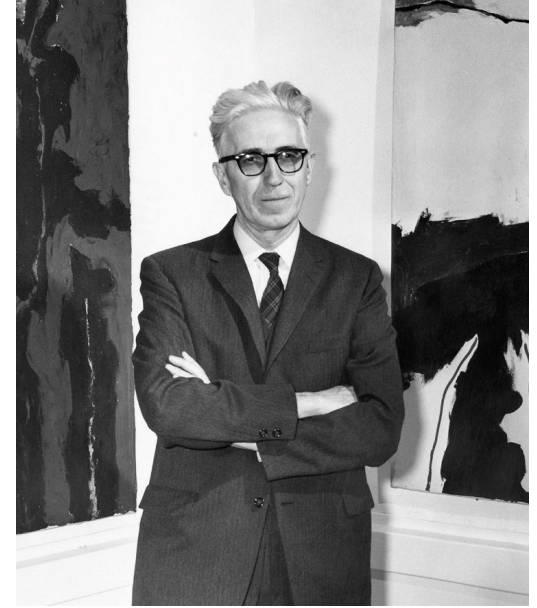
As of 2026-July-22

**End-user standards adoption needs
end-user input.**

Support active industry participation

Positive Incentives (Pros)	Negative Incentives (Cons)
Influence - Companies can inform and influence the direction of future standards	Confidentiality - Perceived risks of revealing bill of materials (BOM) and critical components
Partnership - Partner with National Committees / Mirror Committees - Increase engagement with each company's respective national committee	Anonymity - Not wishing to have any particular key components attributed / identifying specific companies
Small Enterprise Voices - A seat at the table for small/medium sized companies for pre-standardization and standardization discussions	Priority - Due to bandwidth and other business priorities, startups are not staffed to support standardization activities
Real World Pain Points - Highlight operations, supply chain, scaling pain points that standardization can help address	Readiness - Startups still prototyping stages in their hardware and/or software. Their hardware/software stacks are not stable enough to consider standard characteristics.

“I do not intend to
oversimplify – in fact,
I revel in the extra-complex.”



Clyfford Still (1904 - 1980)

Key Challenges Ahead for 2026 - 2027+

1. **Accelerate** active engagement with the quantum industry
2. **Advocate** for the business impact of standards, not more bureaucracy
3. **Industrialize** quantum technologies from lab to commercial scale
4. **Coordinate** best practices among critical and emerging technologies (CETs)
5. **Outreach** for public understanding, buy-in, and societal impact



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Scale Quantum, Not Bureaucracy



Clyfford Still, PH-21 (1962)

oil on canvas

77 in. x 68 $\frac{3}{4}$ in.