Note Well – Intellectual Property

- The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules.
- By participating in the IRTF, you agree to follow IRTF processes and policies:
  - If you are aware that any IRTF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
  - The IRTF expects that you file such IPR disclosures in a timely manner – in a period measured in days or weeks, not months.
  - The IRTF prefers that the most liberal licensing terms possible are made available for IRTF Stream documents – see RFC 5743.
  - Definitive information is in RFC 5378 (Copyright) and RFC 8179 (Patents, Participation), substituting IRTF for IETF, and at https://irtf.org/policies/ipr.
Note Well – Privacy & Code of Conduct

● As a participant in, or attendee to, any IRTF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.

● Personal information that you provide to IRTF will be handled in accordance with the Privacy Policy at https://www.ietf.org/privacy-policy/.

● As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this.

● See RFC 7154 (Code of Conduct) and RFC 7776 (Anti-Harassment Procedures), which also apply to IRTF.
Goals of the IRTF

● The Internet Research Task Force (IRTF) focuses on longer term research issues related to the Internet while the parallel organisation, the IETF, focuses on shorter term issues of engineering and standards making.

● **The IRTF conducts research; it is not a standards development organisation.**

● While the IRTF can publish informational or experimental documents in the RFC series, its primary goal is to promote development of research collaboration and teamwork in exploring research issues related to Internet protocols, applications, architecture, and technology.

● See “An IRTF Primer for IETF Participants” – [RFC 7418](https://www.rfc-editor.org/rfc/rfc7418)
Agenda

- Administrivia + RG Status (10 min)
- Measurement Device Independent (MDI) Quantum Key Distribution (QKD) and the Quantum Internet (20 min)
  Joshua A. Slater
- draft-irtf-qirg-quantum-internet-use-cases (15-20 min)
  Chonggang Wang
- draft-irtf-qirg-principles (15-20 min)
  Wojciech Kozlowski
- Open Floor (30 min)
QIRG Blog Post

- In July, the Department of Energy in the USA announced America’s Blueprint for the Quantum Internet
  - https://www.energy.gov/articles/quantum-internet-future-here
- Wojtek and Rod wrote a short blog post in the IETF blog to promote the QIRG activities
  - https://www.ietf.org/blog/quantum-internet/
Document Status

- **draft-irtf-qirg-principles**
  - Ready for RG last call

- **draft-irtf-qirg-quantum-internet-use-cases**
  - Almost ready for RG last call

- Three expired drafts (but people keep asking about them)
  - draft-van-meter-qirg-quantum-connection-setup
  - draft-dahlberg-ll-quantum
  - draft-kaws-qirg-advent
QIRG Next Steps

- Focus on education, mostly through seminars from researchers on up-to-date subjects and topics (e.g. upcoming “MDI-QKD and the Quantum Internet”)
- Will potentially shift to fewer IETF meetings in favour of virtual interims focussed seminars and discussions
- Internet-Draft/RFC work can keep going, will still meet at IETF meetings