



The IAB workshop on Environmental Impact of Internet Applications and Systems

Session 3 Friday December 9th, 2022

Potential Improvements

Ground Rules Reminder

Welcome!

This session is recorded, and the recordings will be published

Your position papers are public

This is a professional meeting, and we expect professional behaviour

Any kind of harassment is not accepted

Remember: This is a diverse group!

- Including people who have no experience of the IETF

Please be polite, explain your viewpoint in an understandable manner, and learn from others' viewpoints

Goals for Today

- Discuss potential solution directions
- Discuss the feasibility and benefits
 - Are the benefits significant? Can they make an impact?
 - E.g., according to Vesna's points from Monday (below)

- **Session 3: Improvements**

- consider conservation/decrease/reduction/limitation as a criteria for success (10% less per year!)
- consider “disaster scenarios”, emergency situations & extreme climate as baseline requirements
- beware of techno-optimism, efficiency paradox (https://en.wikipedia.org/wiki/Jevons_paradox) & power-differentials

- Are there other impacts elsewhere, tradeoffs, incentives, security issues?
- Scope: no need to focus only on things that we (IETF) can do

Today's Agenda

- Talks (50 min)
 - Metrics (Alexander Clemm)
 - General thoughts on solutions & tradeoffs (Carlos Pignataro/Suresh Krishnan)
 - General thoughts on solutions & tradeoffs (incl. routing) (Alvaro Retana/Russ White)
 - Data formats (Brendan Moran/Carsten Bormann)
 - Multicast (Luis Navarre/Francois Michel)
- Discussion (70 min)