NETWORLD EUROPE

Strategic Research and Innovation Agenda Webinar
12-13 January 2023

INTRODUCTION

Ari Pouttu

SRIA Webinar, 12-13 January 2023

Content

1. SRIA purpose
2. Visions for Future Communications Summit
3. Proposal for Format
4. Annex Structure and Editors
5. Timeline
6. Community
7. Other activities

SRIA FUNCTIONS

- https://www.networldeurope.eu/sria-and-whitepapers/

- SRIA: Strategic Research and Innovation Agenda

  - Needs to be organized independently from EU, from independent society organizations

  - SRIA technically supports the Smart Networks and Services (SNS) Joint Undertaking

  - EU derives the technical content of work programme (that is the future projects' content) from here

  - Updated ~2-3 years

- SRIA has multiple outcomes

  - The SNS negotiation includes a spec of technical challenges to be covered under the scope of that funding

  - A priority list, and potential funding areas, is derived from here

  - EC has confirmed that will extract other challenges from the SRIA, and fund them outside the SNS framework

  - Multiple entities use the SRIA as a floodlight into potential research areas.

VISIONS FOR FUTURE COMMUNICATIONS SUMMIT

Visions for Future Communications Summit – 1st editors meeting

- Started Nov 21, Visions for Future Communications Summit

  - Mix of invited and open presentations

- Moved to the Networld Europe Expert Group

  - Managed by Ari Pouttu and Jyrki Huusko

  - Structured and divided in several working groups,

  - open participation under guidance of group leaders

SRIA = White Paper + Technology Annex

- White paper style condensed version (for larger audience)

  - EU policies, Drivers, SDGs, Societal challenges, roadmaps,…

  - Two pagers on technology chapters (with expected metrics)

  - We can offer communication specialist and graphical designer to do the pictures, layouts etc.

- Technical annex (to support the work programme preparation)

  - The agreed technology domain chapters ~ 10 chapters

  - Agreed format for all chapters

  - Publication platform: NE web pages

SRIA = WHITEPAPER + TECHNICAL ANNEX

TIMELINE

- **Milestones**

  - **Editor groups organised Feb 15**

  - **1st Draft of SRIA**

  - **2nd draft of SRIA**

  - **Harmonisation**

  - **Release for Consultation**

  - **Consultation results**

  - **Final SRIA release**

Realised

- **Jun 15**

- **Oct 1**

- **October 31**

- **November 23**

- **December 6**

- **December 13**

Table of Contents

- A substantial document (302 pages) covering the following area

  - System services description – Hasso-Platner Institute

    - New network services and overall system tradeoffs that need to be considered for the future, posing the stage for technology development

  - System and Network Architecture – Artur Hecker, Huawei

    - analyzing the evolution of systems towards dynamically composed, multi-stakeholder environments, with an increasing softwarization and intelligence of the whole system, and the accompanying challenges

  - Network and Service Security – Emmanuel Dotaro, Thales

    - discussing the paths on the increasingly relevant aspects of security in our infrastructure

  - Software technologies for telecommunications – Josef Urban, Nokia

    - addressing the software related challenges of the ongoing network softwarization, the increasing system complexity, and the enabling of adaptive and customized services.

TECHNICAL ANNEX

- Radio Technology and Signal Processing – Wen Xu, Huawei

  - where the challenges and potential solutions perceived for the future wireless (and mostly cellular) communications are discussed

- Optical Networks (and System Components) – Raul Munoz, CTTC

  - a critical component of the backbone (amongst other potentialities) and its perceived evolution is detailed in this chapter

- Non-Terrestrial Networks and System Components– Alessandro Vanelli-Coralli

  - discusses the upcoming closer integration of 3D networks into the overall communication system

- Devices and Components for 2030 – André Bourdoux, Imec

  - tackles the unavoidable challenges at the fundamental element level, which will constrain and limit all system developments

- Future and Emerging Technologies – Anastasius Tasos Gavras, Eurescom

  - discussing promising technologies that may bring structural changes across all the current communication concepts. Some of these technologies are already being researched, but have not yet a clear path (if ever) to the transformational impact it is expected by their wide adoption.

- Overall, this SRIA has been the result of the work of a set more than 150 volunteers, coming from more than 85 entities.

- The Networld Europe community is in debt to all for their selfless efforts.

- The full list of technical editors and contributors is included in the last chapter of the annex. The editors wish to apologize if someone is missing from the list. Let us know and we'll add you to the list of contributors.

- SRIA webinar is planned for January 12-13, 2023

SRIA 2022

GLIMPSE ON CONTENT

13.12.2022

THANK YOU FOR YOUR ATTENTION

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