Shaping the Future

Consolidation summary and next steps

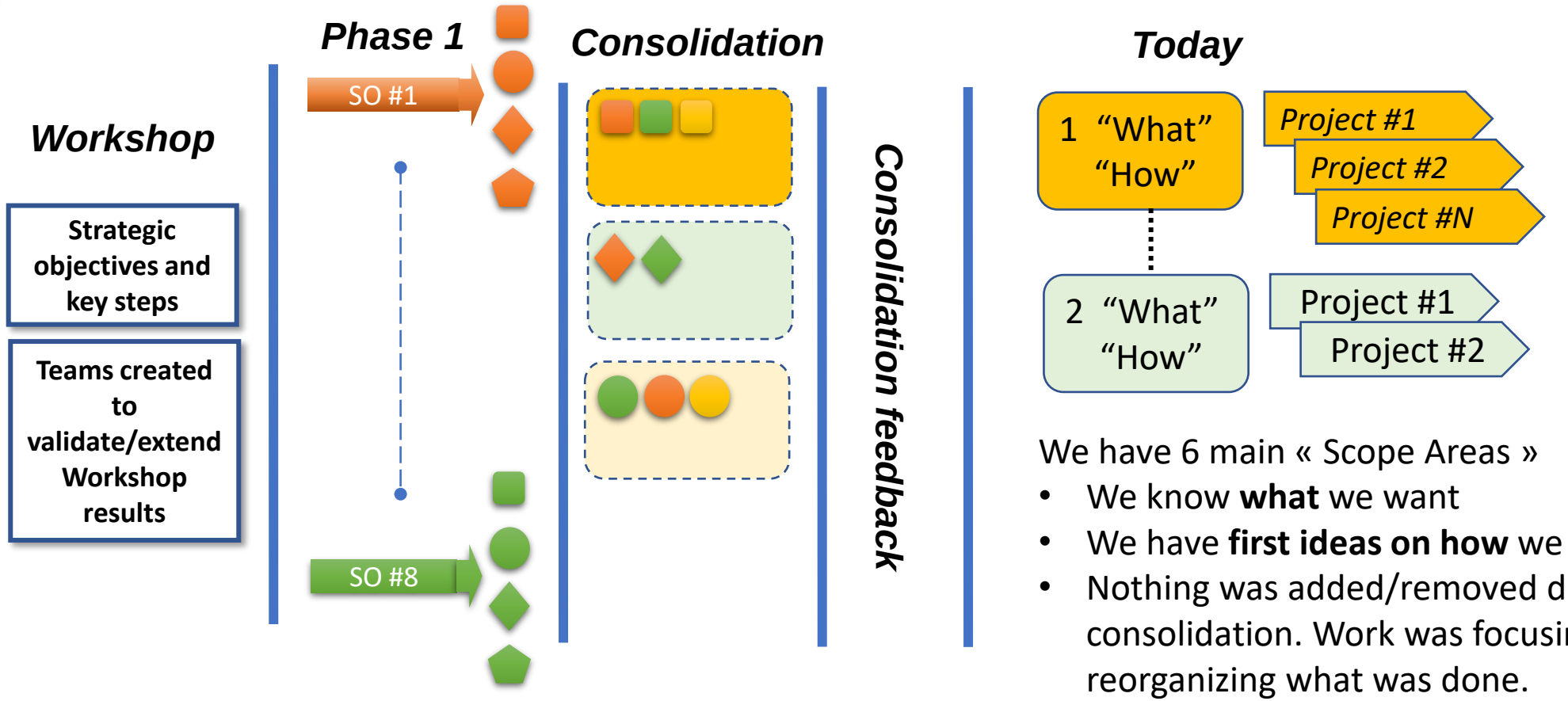
Including feedback given

2022-11-27

General

- The scope of this presentation is to give a background and present the result of the consolidation of the work from the Strategic Objective teams.
- The presentation have been updated with feedback from the full Shaping the Future program.
- The presentation is now the consolidated input to the future work.

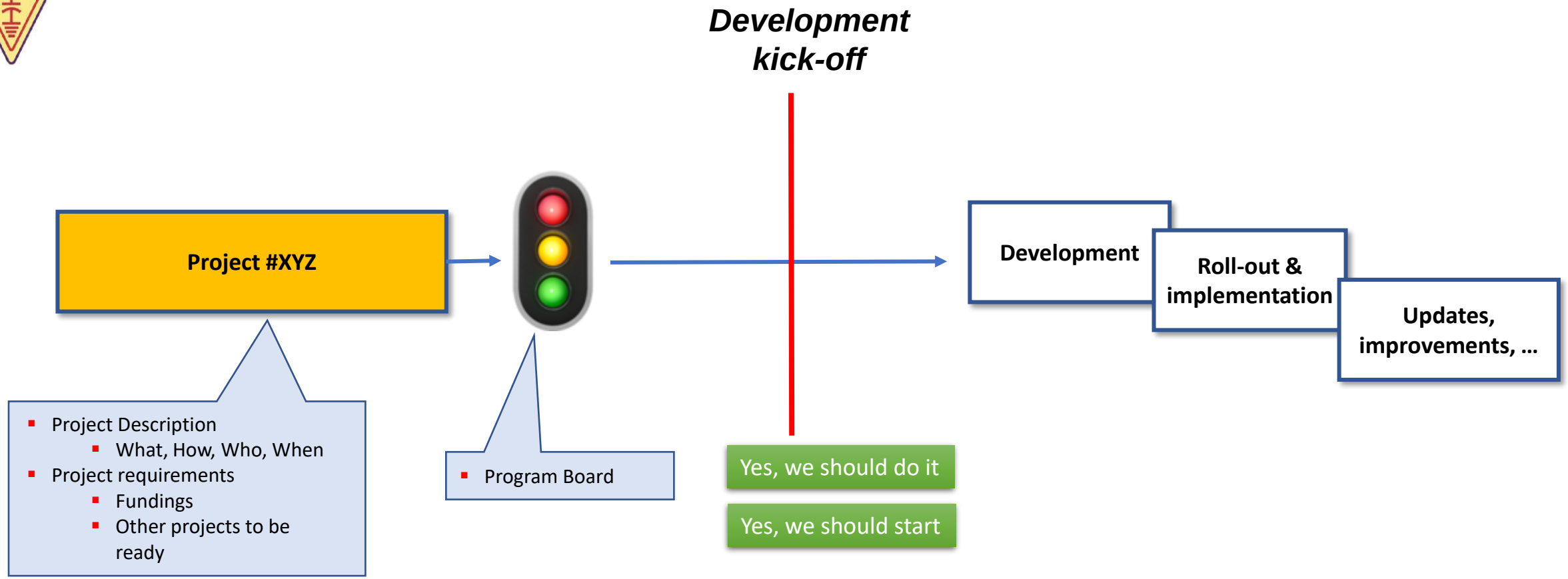
What's happened until today?



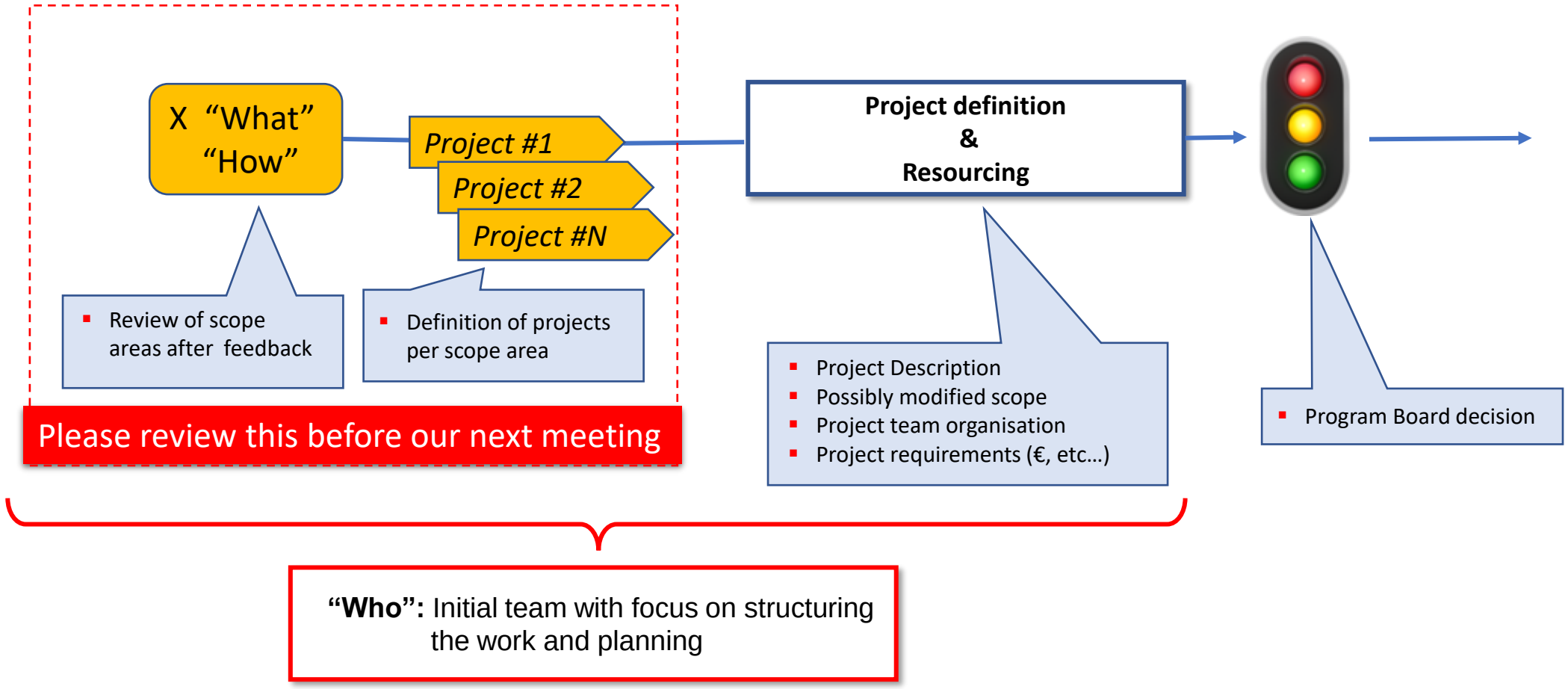
We have 6 main « Scope Areas »

- We know **what** we want
- We have **first ideas on how** we will do it
- Nothing was added/removed during consolidation. Work was focusing on reorganizing what was done.

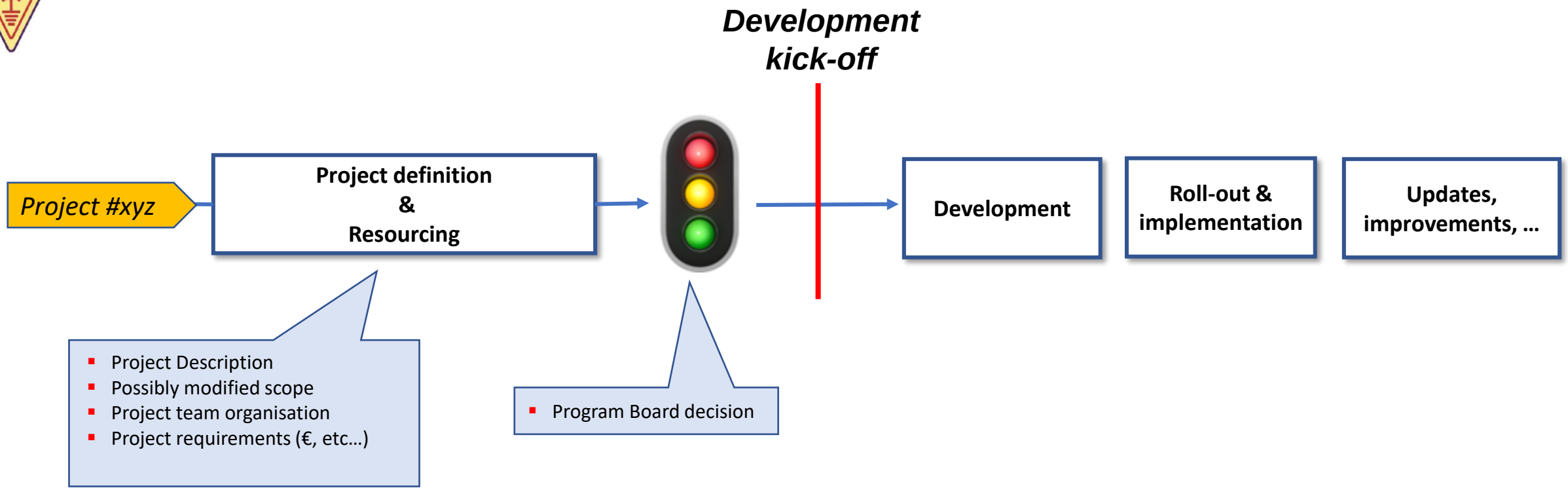
Projects : the process we agreed upon



What is still missing ?



Individual Project



"Who": Initial team with focus on structuring the work and planning

"Who": A project team with a project lead and resources with the needed skills

Closing Consolidation & SO teams

- The consolidation was possible after the SO teams had made their job
- The consolidation is now ready for the next step
- We need now to reorganize from SO Teams to project teams
- The SO teams can now close. **We thank you all for your time and contributions!**
- A lot of expertise came from the teamwork, and we hope SO team members will also contribute to the future project work
  - Support projects (e.g. giving background)

  and/or

  - Actively take part in the project(s)

How to move forward: Priorities

- The 6 scope areas will result in several individual projects.
- Prioritisation is required to limit the amount of parallel work. E.g. limit to 3 parallel Scope Areas at start-up.
- The resource situation will determine the work that actually can be started.
- The idea is to focus and fill Scope Areas with resources in priority order to avoid delays

How to move forward: Start-up team

"Who": Initial team team with focus on structuring the work and planning

- We need a team to start up the work – Start-up team.
- Idea is to clarify the next steps and find the initial team resources.
  - Members from the current Shaping the Future program would be ideal to join the initial teams.
- Other interested persons that like to work with ideas, structure and planning are most welcome to join.

Note: A "process team" will be needed long term to support with guidance and clarifications to the projects.

Key issue moving forward - Resources

- Make sure that the work done is not just an intention, form teams that are dedicated to the ideas.
- A critical mass size is necessary for each project team
- It is understood that volunteers participate on a “best effort basis”
- We may engage external resources/consultants where needed
- Societies and IARU capacity already limited, volunteers from our national communities are required
- We need to spread information about the program to find people for the different projects

Lack of resources => Focus

- All 6 Scope Areas have been selected by priority during the work
- Projects without a sustainable resource situation, and a critical mass, cannot start
- We need to avoid delaying start of the first projects
- Populate projects in a defined order to avoid delays

How to move forward: Resources needed

Resources will be needed in three phases:

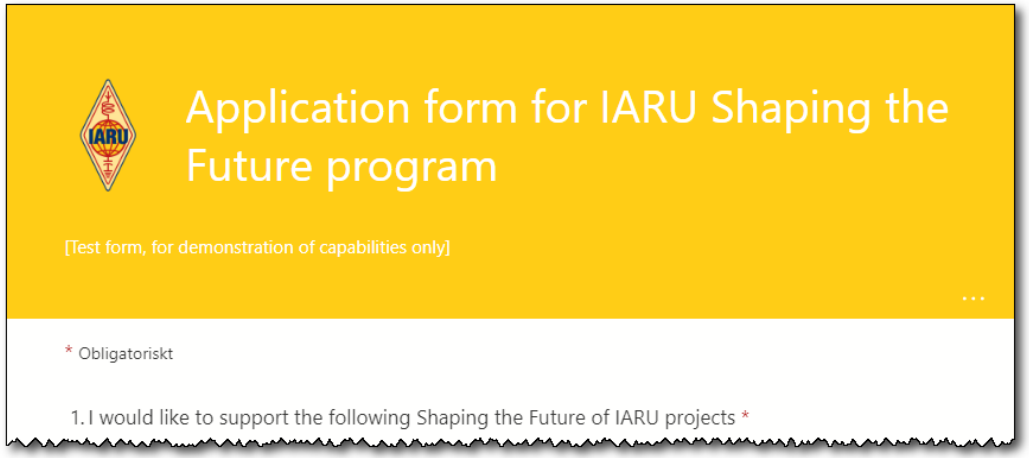
1. Persons to support the start-up work (5 to 10 persons, “short term”)
   - Advertising campaign to find volunteers for phases 2 and 3. Involving external resources?
   - Define incentives for volunteers
   - Prepare guidance to project teams (expectations, follow-up, etc.)

2. Persons for initial teams (typical 5 persons per scope area, “short term”)
   - Further definition of scope areas and projects
   - Define separate projects to meet the scope area
   - Active up to approval from the Program Board

3. Per project resourcing (resourcing is project dependent)
   - Projects will have different duration (short, mid, long term)
   - Adequate project resourcing, above critical mass
   - Having the right competences

Finding resources (Phase 2 & 3)

- IARU understand that the MS organizations are not able to provide most persons out of the MS organization, also working for IARU
- Member Societies are the “liaison” with their national community
- Would like Societies to advertise nationally about the program
  - IARU prepare content that is easy for the MS to use in
    - Magazine
    - Newsletter
    - Web
    - Etc.
  - IARU prepare form for signing up or showing interest to take part



What happens now?

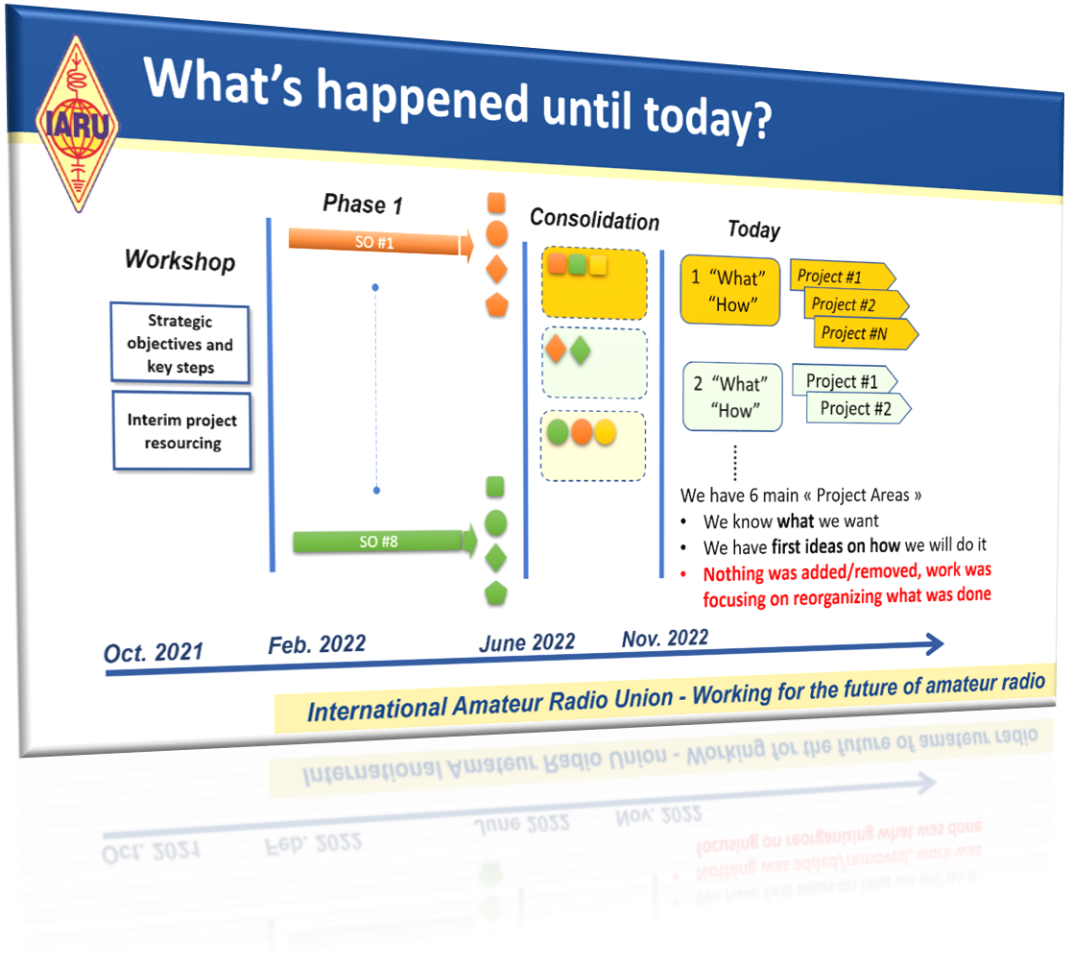
Start-up team

- Team of 10+ members from the StF program
- First meeting 30th November

Next steps

- The start-up team will discuss near future steps and decide on how to ramp up initial teams and project teams in the best practical way.

Scope areas


What's happened until today?
Workshop
Strategic objectives and key steps
Interim project resourcing
Phase 1
SO #1
SO #8
Consolidation
Today
1 "What" "How"
Project #1
Project #2
Project #N
2 "What" "How"
Project #1
Project #2
We have 6 main « Project Areas »
We know what we want
We have first ideas on how we will do it
Nothing was added/removed, work was focusing on reorganizing what was done
Oct. 2021
Feb. 2022
June 2022
Nov. 2022
International Amateur Radio Union - Working for the future of amateur radio

Identified “Scope Areas”

6 main scope areas

1. Build a public relation program to promote Amateur Radio
2. Be recognized as useful to society
3. Establish and maintain connections with other communities
4. Training & self development for amateurs
5. Broaden the technical focus of Amateur Radio: 21st century technologies
6. Include Amateur Radio in public education

- Additional horizontal projects – “Supporting projects” (see later)

Structure

Each Scope Area is defined by

- "What" – This is the scope of what to achieve
- "How" – Where there are ideas, it is listed how to reach the goal. This will be reviewed and managed by the projects teams as needed.

The background information

- The notes from the Strategic Objective teams have been included as "stickers" on slides following each scope area.
- Some "stickers" have been added during discussions at meetings.

Public Relations Program, 1(4)

Public Relations Program: Promoting Amateur Radio

What

- Organize, structure the PR program & strategy to promote amateur radio
- Generation of content that can be customized, localized and reused by the different societies (take into account the language, culture, etc.)
- Organizing and participating in events (physical or virtual)
- Support finding interested volunteers for the work inside IARU and member societies

How

- Define the different audiences/target groups (including regulators & authorities ?)
- Define the different types of messages for these targets
- Define how the work is split between IARU and Societies and how is this implemented by the MS
- Prepare & train the local MS representatives to promote Amateur Radio
- First work with professionals but in the long run make an effort to build an internal team
- Define ways to monitor the effects of the PR actions (surveys, traffic on AR related sites, etc...)

Public Relations Program, 2(4)

To be reviewed for the scope:
Help the societies to deal with their regulators and national authorities

Prepare common documentation package
A documentation package should be prepared that can be distributed when necessary that will include essential information on AR, its purpose, benefits and relevance to various sectors, as well as our readiness to communicate, assist and cooperate on wireless related subjects.
The package could be prepared in a template form at the IARU level and possibly translated by the Member Societies to their local language.
It should be enriched/tailored with locally specific information by the MS.
The package could be used, directly or during events, when approaching relevant entities or when being approached by interested parties.
The documentation would be best to focus on AR use-cases where AR's relevance is practically and undeniably proven through actions/projects/activities. By focusing on what we actually do instead of what we could be doing may be a better approach in reaching our goals.
The documentation should highlight the benefits of AR as a teaching and research/innovation platform as well as a favorable pass-time activity.

SO7:2 Generate PR content
Discussions on IARU resources to create media packages when interesting areas to inform about is found. Many MS today does not have the capability to create such packages and only need for translations may be needed before publishing locally.

"Amateur"

Disambiguate "Amateur" as "incompetent"

Compile and maintain useful contacts lists
The Member Societies should attempt to compile and subsequently maintain a list of entities/contacts with whom we share common goals/targets.
Lists should include social media channels related to youth activities/technology/communications. IARU could collate the data.
The list could serve both as a means for us to be able to reach a wider target audience thus making ourselves reachable and as a means of establishing partnerships for cooperation on subjects relevant to wireless communications.
Such a list could include:
- Government and Non-Government Organizations (or known ambassadors within)
- Academic institutes, innovation and R&D centers of activity
- Science and Special Interest Groups (i.e. maker communities)
- Organizers of relevant public events, seminars or expos/fairs
- Community groups whose activities may be somehow linked to wireless communications.

SO6:1 Public Relations Program
Implementing a PR program is a multifaceted effort that will require contribution from Member Societies, marketing professionals as well as on-going coordination at the IARU level.

Public Relations Program, 3(4)

SO3:2 Become a top amateur PR specialist
- Develop PR skills and expertise within the Member Societies and at the IARU level?
- We also need to build a community or PR specialists that can share knowledge and material (meet , exchange ideas and experiences)

SO3:3 Professional PR team for the IARU-R1
We need a professional team to support all member countries to promote in mainstream media amateur radio, activities, so the public will see the social, economic and other benefits thanks to amateur radio.

SO8:3 Customizable Promotion materials
- Creating a platform for Software and kit information for developers
- You Tube promotional films
- Interesting publications list

SO2:3 For each webinar: collect multimedia, notes and external resources to hamradio.org
- Prepare structure for each episode
- Keep the resources meaningful

SO8:1 Develop a promotional TOOL KIT
- Electronic promo media communication (Leaflets; video..etc) from MS
- FAQ list
- Pre-recorded seminars

Participate in Local/National/International Events
Keep track of upcoming events. Pro-actively prepare for participating:
as a presenter in science, robotics, technology fairs, expos, themed parks and museums as enabler/sponsor in events where short range communications are important to the organizers due to operational or safety reasons (i.e. sporting events, parades, expos, concerts etc) as mentor/judge/sponsor/contestant in local hackathons or innovation festivals.

Efforts should be made for AR Member Societies or at the IARU level into participating with delegates into relevant events such as national and international technology, science and communication expos/fairs, activities etc. We should find ways to give incentives for the formation of such delegation groups. Delegates to such events should provide feedback on their experience with sharing of knowledge and best practices. As a result we could be expanding our useful contacts list, create awareness and facilitate networking within technology interest groups. Our key aim would be to generate fresh ideas for AR outreach and upcoming activities.

AR societies with possibly some backing from IARU could be routinely sponsoring local events as a communications enabler/specialist. In this respect the Member Societies could setup and maintain "event go-kits" that will include communication/technical equipment and routinely train their members on how these can be used at relevant events. IARU can back up the efforts for sourcing the necessary hardware. (automotive rally events, bike races, marathons etc...)

Public Relations Program, 4(4)

SO7:3
Measure the presence of AR on social media (KPI).

Promote Radio Sport Activities
to the general public (ARDF?, Using club callsigns like YOTA/JOTA)
e.g. annual radio competitions with few simple rules (simple rules may make competitions accessible and appealing to more people) (Perhaps introduce a gaming feel to the competition experience that can also make it fun and entertaining, i.e. puzzle solving, Allow entries without a full license using club callsigns)

Promotional support for radio related open-source projects.

SO7:1 Build PR target list
- Challenges: availability of people especially since the Ukraine conflict.
- The team is focusing on how the ham voice can be heard outside of the ham community. Can public awareness measurement measurements be used in a simple format?
- Seeking existing media managers in the MS. Can other MS designate media responsible persons?
- One idea is to list national relevant organisations as receiver of information, and we monitor their interest.

SO8:2 Communication & Transparency in discussions among MS
- List of PR material available / produced in MS
- List of upcoming events

Organize Amateur Radio Open Events
Our main events should become open to audiences outside the AR community and be routinely advertised in social media, calendars and public forums. Such events could include:
- AR communications related seminars/discussions
- Technology days and AR special event days

Our main focus groups should be ages 14 and above that are already somehow involved/interested in technology/communications.
AR Special Events need to have content that is focused and relevant to the local community (such as for their history or anniversary), or educational etc - not simply showing AR QSOs

Community Public Service, 1(2)

Community public service: be useful to the society in general

What

- Facilitate understanding of technology in the wider community
- To become publicly recognized as radiocommunication enablers/advisors

How

- Amateur "TED talks“ (https://www.techtarget.com/whatis/definition/TED-talk) : Organize public technical seminars where the content should be prepared to be readily accessible and licensed for free use by the AR societies (select and endorse content and speakers)
- Help amateur groups to take part in supporting public events (e.g. marathon, rally, etc.)
- Identify areas where amateur radio is contributing to the society. (New ideas / proposals are welcome)

Note: Emergency Comm. was not included because it is not generally recognized. However, since Emergency Comm. has recognition in some countries, it should be considered for discussion including also the IARU-R1 Coordinator G0DUB

Community Public Service 2(2)

SO6:1 Organize Open Seminars
Become a respectable organizer of public technical seminars. Content creation could be a joint effort between Member Societies, IARU, relevant professionals and academic institutions. The target would be for the content to be readily accessible and licensed for free use by the AR societies.

SO6:1 Community
Initiatives in this area focus on participating to and the organizing of open events and in general the building of relationships with local authorities.

Become an established organizer of public technical seminars
As an expert group on wireless communications, AR Member Societies could be routinely organizing public seminars offering general awareness and insights on wireless related "hot-issues" (i.e. EMI pollution, ionizing radiation, basic antennas usage and setup).

The technical content for such seminars could be prepared in coordination with IARU and other Member Societies as a joint effort (perhaps even with the involvement of professionals) and then be available as a shared resource for any MS wishing to present it.
In fact it would be beneficial to establish a permanent working group on this topic which could maintain the momentum on content creation (perhaps two new subjects per year...).

The content should be kept current and up to date. (Establish a legal framework i.e. license, copyright rules for this content, Perhaps a watermark and/or a disclaimer)

Our ambition would be to relatively local audiences but given time and experience this path may as well lead open doors to national and even international events and thus further gain acknowledgement and recognition of our expertise.

Collaboration, 1(3)

Collaboration inside the AR community

What:

- Platforms and tools to bring people to work together on common amateur-radio oriented projects (hamprojects.ch is one possible example of such a platform)

How:

- Tools to list and promote existing AR related projects

Collaboration with non-AR community

What:

- Elaborate on collaboration strategies
- Provide radio related know-how to communities
- Promote open-source hardware and software related to amateur radio

How:

- Establish links with Maker community : take part in events, organize events
- Support kit production and distribution of amateur-radio related open-source kits (intermediation).
- Setup a collaboration with established crowd-funding / crowd sourcing platform for AR

Collaboration, stickers, 2(3)

Support Kit Building
IARU and the Member Societies could collaborate in the logistics, design and sourcing of materials for kit-building. More specifically IARU could setup a common platform where radio amateurs can have their kits sourced and distributed. Such a platform could:
Assist with components for kits (sourcing)
Assist with worldwide distribution
Be Non-profit, Open-sourced projects, some profit goes to the funding of the platform to help with the logistics of making it work.
Fire and forget service for radio amateurs who design and build kits that could benefit from being distributed (example is DL2MAN truSDX project)
IARU could cooperate with existing manufacturers/distributors (i.e. https://www.kitbuilding.org/)
Offer an awards scheme for exemplary hardware/software projects

Build partnerships with maker groups
Invite maker communities to presentations organized by ham radio clubs
Demonstrate the features and benefits of AR in the maker world (i.e. telemetry, wireless data transfer, rf links, radar)
Propose joint projects with the maker communities
Hands on support for projects, trainings, experimentation, access to resources and ideas, mentoring and collaborations on RF related topics
Participate to international makers events (hackaday.io)
Understand the maker community and share their way to see technology, do not try to impose ours (open source, sharing knowledge etc.) Instead, come up with interesting projects that are AR related.

Challenge: Maker communities rely on license-free radio, so convincing them to take an exam for radio with more rules is difficult and not that relevant to them.

MS should follow the general diary of maker community to see what is happening. Maker fairs are important as long as radio is involved.

SO6:3 Support Kit building
AR includes makers who enjoy sharing with others. However, the logistics around the sharing of “kits” can be daunting for any single person. The sourcing of cheap materials, PCB manufacturing, managing of orders and distribution across the planet are beyond the capabilities of most.

SO6:3 Maker Groups
Initiatives in this area focus on collaborating with maker groups and establishing a common platform to assist with AR related kit building, sourcing and distribution.

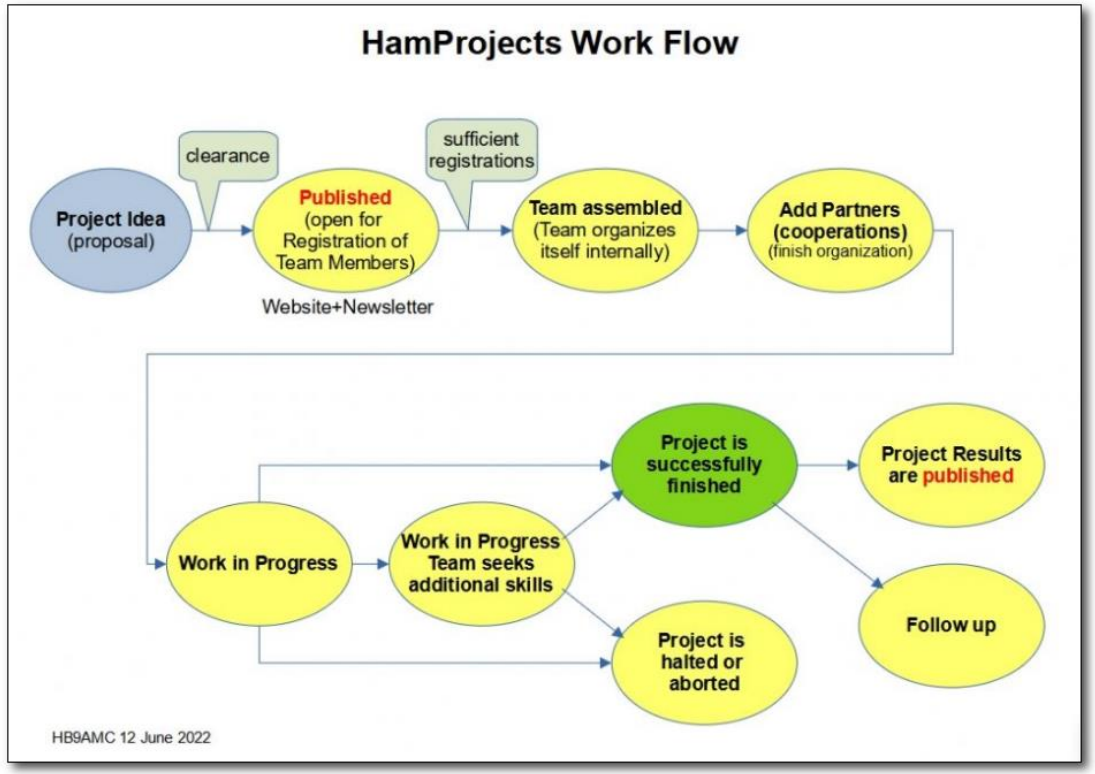
Collaboration, 3(3)

SO1:1 Open Source (SW/HW)
Open Source & Open Hardware project developers can submit their project for IARU R1 patronage program.
We will support the selected projects with knowledge, promotionor financially.

SO1:3 Fablabs/Makers/Hackerspaces
- Catalog of related amateur radio activities for DIY projects
- Hamradio how to's and best practices.

SO4:6 Projects Ecosystem
- Invent and create interesting projects that are beyond the possibilities of hams working alone.
- Efficiently find colleagues for your project team.
- Join forces with colleagues who are interested in the same project idea.
- This is Project Based Learning (PBL) with you defining the subject(s)!
- Distribute work load on several team members.
- Focus on the parts of the project you are sure to master.
- Achieve success that will be recognised also beyond your ham communities !

USKA hamprojects
(www.HamProjects.ch)



Training & self development, 1(2)

Training & self development for amateurs

What

- Promote training and self development

How:

- Training & educational material
  - Including courses through a learning management system
- Technical webinars and podcasts
  - define the outline / program
- Mentoring forum
- Investigate and select the best tools /solutions and steps (website, then print, then learning managment system, then...)
- find the sources or people able to produce the content, define the policies and guidelines

Training & self development, 2(2)

Amateur personal Code of conduct

Welcome and retain new radio amateurs

Help the Clubs to grow

SO2:2 Monthly IARU webinar/podcast with guests
- Invite knowledgeable guests
- Produce 12 episodes in total
- Produce notes/resources page for each episode

SO5:2 Self-development platform
Target audience:
- Prospective radio amateurs.
- Licensed RA expanding their knowledge.
- Members of public looking for expert advice.
- Educators looking for STEM related training material.

SO2:3 For each webinar: collect multimedia, notes and external resources to hamradio.org
- Prepare structure for each episode
- Keep the resources meaningful

SO5:3 Mentoring forum platform
Aims to provide a communications channel between mentors/elmers and radio amateurs looking for help, guidance and support on specific subjects.

SO2:1 Prepare for webinar and other content production
- Prepare webinar topic list and scenario (structure)
- Plan the production process for webinars
- Identify best marketing approaches

Bring AR to the 21st century, 1(2)

Broaden the technical focus of Amateur Radio: 21st century technologies

What:

- Make it easier to understand and use new technologies

How:

- How to modernize amateur radio to become more relevant and appealing
- Not only focused to youngsters / newcomers : how to make the "old community" to embrace / move ahead to the new technology ?
- How to upgrade the technical background

Bring AR to the 21st century, 2(2)

SO4:1 To bring Amateur Radio into the current technology century and take it beyond.

SO4:2 A leading community is recognised for its expertise and its ability to lead the stream, not just follow it.

SO4:3 To create a climate in which many more amateurs take on that technology is a fast-moving target, and that amateur radio must keep in tune but also must be able to innovate new technology.

SO4:4 Create an digital and technology environment to attract new young talent into the amateur service.

SO4:5 Building on the Amateur Radio tradition to expand the technological journeyfor incumbent Radio Amateurs.

Academia and education, 1(4)

Academia and education : Include Amateur Radio in public education

What:

- Make amateur radio part of the curriculum

How:

Build a set of materials targeting elementary and secondary schools:

- Use amateur radio as a teaching aid (use amateur radio as an additional way to teach geography, science, languages, etc.)
- Promoting school radio clubs

Materials are produced/coordinated/identified globally and then localized with the support of the Member Societies

- Explore ways to include amateur radio as part of the education syllabus

Universities

- Provide support and expertise to research teams
- Possibly find ways to direct or sponsor PhD programs in areas related to AR.
- Seminars

Incentives program

- Provide incentives to the schools and academics to use the above.

Academia and education, 2(4)

SO6:2 AR in academic research programs
Amateur Radio is also about experimentation, innovation and discovery. As such it could be used as a source of research ideas in radio communications. IARU could be proposing research subjects, and offering incentives, sponsorships etc. Member Societies could offer access to equipment, time in lieu etc.

SO6:2 Education and the Academia
Initiatives in this area focus on promoting AR as a teaching aid, supporting the creation of school radio clubs, assisting with research on radio communications and possibly introducing AR as pilot subject in formal education.

SO1:2 Radio at Schools
- Supporting school radio clubs
- Finding regular contacts and ambassadors in Elementary Schools, Secondary Schools and Universities.
- Catalogue projects/ideas - what they can try to do with or without license.
- Demonstrations, workshops.
- Tips, support materials - when you build your first school amateur radio station.
- Lobbying vendors and manufacturers for a special education discount on the purchase HAM RADIO equipment for installation in schools & universities.
- Network of remote stations open for schools & universities.

SO6:2 Promote AR as a teaching aid
Amateur Radio is a good source of material for the teaching of STEM related courses. Convincing educators to utilize it as a teaching aid should not be impossible. It will require coordination in the preparing, organizing and disseminating the course material. Content can be prepared at a Member Society level, IARU to coordinate the collation and dissemination of teaching material.

Academia and education, 3(4)

Establish AR as part of the educational syllabus
Creating amateur radio education program for schools as additional school activities, especially in elementary and second grade schools.
Offering technical support in practical activities (like communication for telemetry and similar usage)
A syllabus should be written as to how introduce AR; if not properly prepared the target group looses interest. The term what is in it is important for students. They should in one way or another benefit from participation.
Get AR skills recognized as academic accreditation qualifications.

SO6:2 AR part of formal education
Amateur Radio can be so much more than a simple teaching aid. It has further benefits as a platform for personal growth and self development, experimentation, innovation and a paradigm for social values and ethics. IARU with assistance from Member Societies could approach educators and jointly explore the merits of integrating AR as a formal subject in educational syllabi.

SO6:2 Radio clubs in education
Having an on-premise radio club provides opportunities for hands-on access to equipment, a place to learn, experiment, innovate and have fun. It will require resources from Member Societies. IARU could provide an incentives program by sponsoring equipment, organizing and fostering activities especially targeted to schools.

Promoting AR as an educational activity
Contact managers of educational institutions to find out common interests. Prepare actions accordingly.
Organize roadshows in schools and classes
Prepare presentations highlighting the benefits of amateur radio as a teaching and research platform.
Go to the places and present AR to the leaders of Educational and Academic institutions. in order to include AR in their courses. Help students in their research work. (approach members of the academia i.e. lecturers with the potential to cooperate for mutual benefit) proactively offer support by suggesting events and lectures..
Support in the areas of mathematics/computer science/natural sciences/technology
Develop training modules that may assist with Science and Geography courses

Ham radio is the ultimate STEM activity for kids. As children learn about how to operate an amateur radio, they will build upon their knowledge in science, technology, engineering, math, as well as electronics, physics, and space science. It is a great hands-on activity that introduces kids to technical concepts and inspires them to learn more. (https://nescitech.org/product-category/courses/ham-radio/)

Academia and education, 4(4)

SO6:1 Public Relations Program
Implementing a PR program is a multifaceted effort that will require contribution from Member Societies, marketing professionals as well as on-going coordination at the IARU level.

Promoting AR in university research/innovation
Possibly find ways to direct or sponsor PhD programs (equipment, time in lieu) in relevant areas.
Get involved with university research projects related to wireless communications liaise with technical universities propose to contribute to experiments/research
Promote the AR allocated spectrum as a testing ground for research and innovation (facilitate access to the spectrum to PhD students by introducing them to AR and helping them obtain their license)
Get amateur radio to be featured in university research publications and conferences assistance with setting research topics, providing resources and practical expertise where needed
sponsor scholarship programs
Speakers in seminars, Assistance with training programs, providing material and resources for advanced topics both to students and to lecturers

Supporting the creation of amateur radio clubs in education
Foster University and School radio clubs by links to teachers who many be licensed.
Provide incentives or assist schools with their decision to create a radio club.
IARU can centrally organize common activities amongst school clubs such as scheduled QSOs, contests etc...
Sponsor equipment and provide technical assistance in the setup/running of the club.
Assist with the establishment and running of the amateur radio clubs.
Eventually aim to create an international Schools Amateur Radio Clubs League (perhaps under the YOTA program...)
Use the plethora of possible AR activities as a showcase of the capabilities of AR (Amateur Radio Activities (qsl.net))
Promote the benefits of AR in academia by offering a platform where students can get hands-on access to actual equipment (Give them access to a soldering iron).
Host relevant links and web resources on AR Member Societies websites for Schools and University contacts/clubs.
When sufficient momentum, maturity and scale has been reached, and where this is not already the case, try to get regulators to establish special provisions for lower level AR licenses.

Supporting projects

Supporting projects

- Multiple projects have similar “sub-blocks/components”
  - Example: web-based apps
- Multiple projects have common dependencies
- Instead of developing multiple times the same sub-blocks, it is proposed to have these regrouped as “supporting projects”
  - Example: website/amateur radio portal (hamradio.org)

hamradio.org, 1(2)

hamradio.org

What:

- Make hamradio.org be the preferred source of information about amateur radio

How:

- Quick start the HamRadio.org website
- Start the discussions with the other regions (R2 and R3) to agree on a first approach for a beta release of static content
- Consolidate and organize the different proposals from the STF projects

hamradio.org, 2(2)

SO8:1 Develop a promotional TOOL KIT
Video conferencing platform that is easily accessible, is unlimited and has value add features so that MS can meet and discuss more easily.

SO1: Develop a promotional TOOL KIT
- In any TV or radio report on ham radio we say - more details at hamradio.org.
- One website for Region I
- We work together to create best content, and translate it to all languages
- 5 blocks:
- WHY - in an attractive way, in simple language, we show why it is worth becoming a ham radio operator for different groups.
- HOW - clear instructions on what to do to get started.
- WHERE - how to find club, local organisation
- DIY PROJECTS - projects of various difficulty levels, with and without a license. For schools, DIY makers.
- EVENTS – a place for regular virtual meetings with ambassadors who will encourage to start the adventure or teach the participants.

hamradio.org
hamradio.org to act as a consolidation and publication point for various activities such as:
- Webinars / Podcasts / Seminars at local ,national and international venues
- Learning Management System (MOOC Platform)
- Knowledge Sharing via Online Forums Platform
- Hosting hub for research projects (i.e. Noise Monitoring project)
- Incentives program for content creation and personal development
- Promoting the development of AR related educational games
- Sharing of technical content (multilingual)
- Sharing of promotional material (multilingual)
- Sharing of teaching aid material
- Sharing of event calendars and fostering relations between AR societies and other entities

Incentives, 1(2)

What:

- Work out the incentive mechanisms and establish a program for radio amateurs to reach a sustainable source of contributions

How:

- Contribute back to the amateur radio community
  - for example when content has been created
- Self develop by using the resources provided by the community
  - For example by credits (e.g. Project Management Institute)

Incentives, 2(2)

SO5:1 Development of an Incentives program
Aim to:
- build engagement
- build a brand for amateur radio
- have measurable learning outcomes via a Continuing Education and Certifications programme

SO1:1 Open Source (SW/HW)
Hackatons & Competitions on amateur radio topics, solving

SO1: Rewards for the trainers

SO1:3 Fablabs/Makers/Hackerspaces
- Contest for most creative project using amateur communications and description of the making.
- Materials from the contest will support an open online catalog of interesting ham radio projects/ideas to build yourself.

SO6:3 Collaborating with maker groups.
Providing incentives for the sharing of innovative ideas.

SO6:2 Radio clubs in education
IARU could provide an incentives program by sponsoring equipment, organizing and fostering activities especially targeted to schools.

IARU cooperation

What:

- Improve internal communication and cooperation for example create content
- Tools to strengthen the Member Societies

How:

- STARS 2.0
- Shared IARU Member societies database : online database listing points of contacts and activities covered by Societies

SO8:2 Communication & Transparency in discussions among MS
List of license cost versus minimum income per capita (if possible) per MS

Thank you!