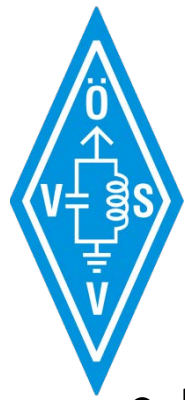# Growth in Amateur Radio

Secure future of Amateur Radio

IARU R1 General Conference Landshut 2017
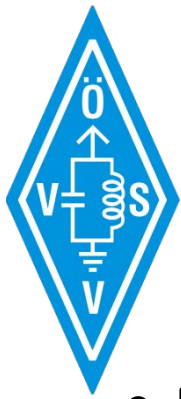
Views by OE3FTA, Florian

Youngsters view point

- Intercultural community
- Playing High tech
- Competition
- Family&friends influence
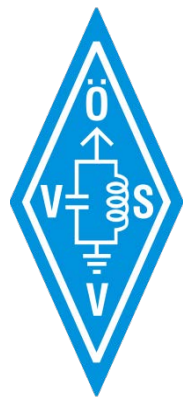- Large spectrum of topics for experiments

Need for change

- Fun factor (YOTA camp)

- Virtual Youth organisation (social media)

- Projects at school

- Public relations work

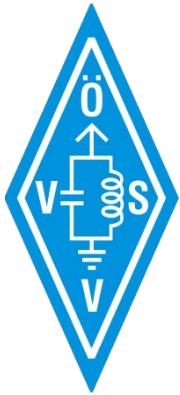- Young elmers- youngsters coaching youngsters

View from new generation

- Clubmeetings should have fun experience

- MS empower young members to take over important tasks

- Coverage on social media instead of static html homepage
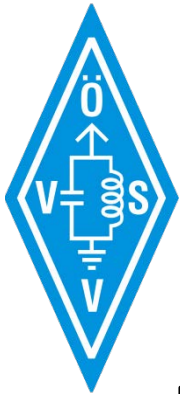
- Innovation (SDR, SmartphoneRadio,etc)
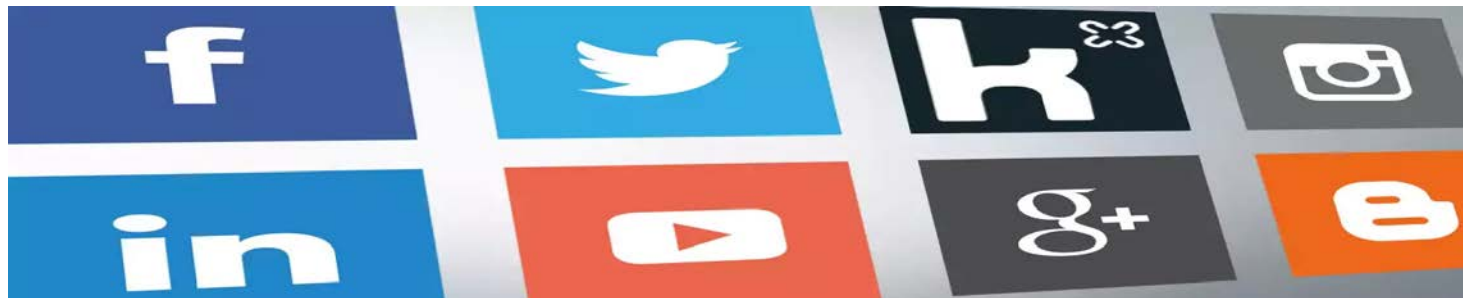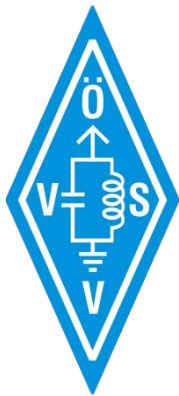
Amateur Radio

worldwide experiment-never ending?

Agenda for discussion

- Facts & Figures

- Positive examples, blockers

- Foundation licence, Novice license, HAREC…

- Re-Definition of Amateur Radio

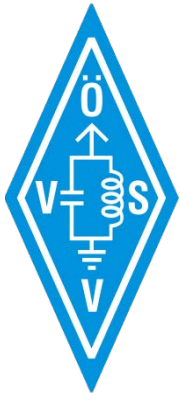- Target groups
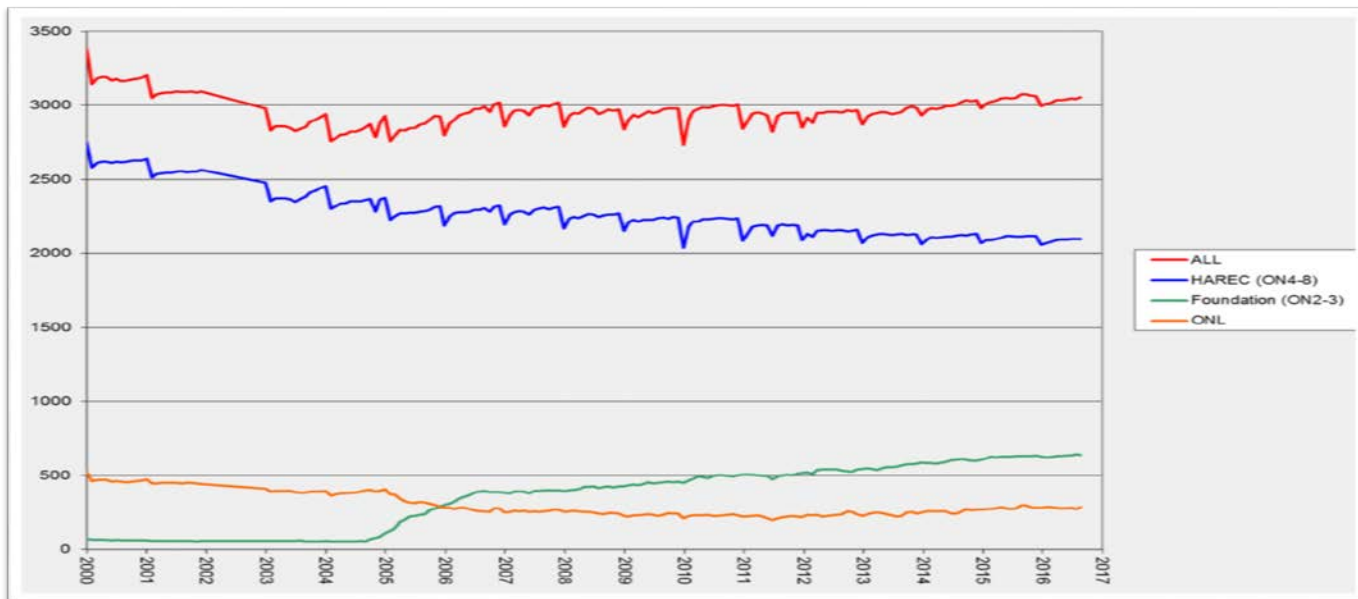
- Actions

To do list

Some FACTS

- Population in Europe getting older (average age 65+)

- Only few societies growing (slow)

- Most growth with foundation license system

- Big interest in modern technology

- Problems with traditional amateur radio (EMC,Antenna)

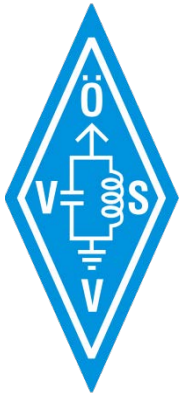- Definition of „Amateur Radio Service"? => experimental

Do we have a problem?

- Lets just do more of the same
- Improve our current work
- Some figures show improvements

Is this real Amateur Radio?

- Echolink
- DV4Mini
- HAMNET&Wifi
- Satellite&space
- Digital modes
- ??

Linking Example

Mobile Stations in Area "A"

Mobile Stations in Area "B"

FM Transceiver

FM Transceiver

Station"A"

Station"B"

PC with EchoLink Software

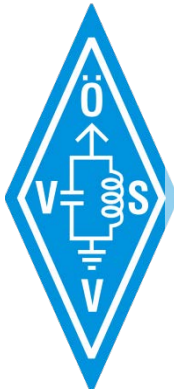PC with EchoLink Software

InternetLink
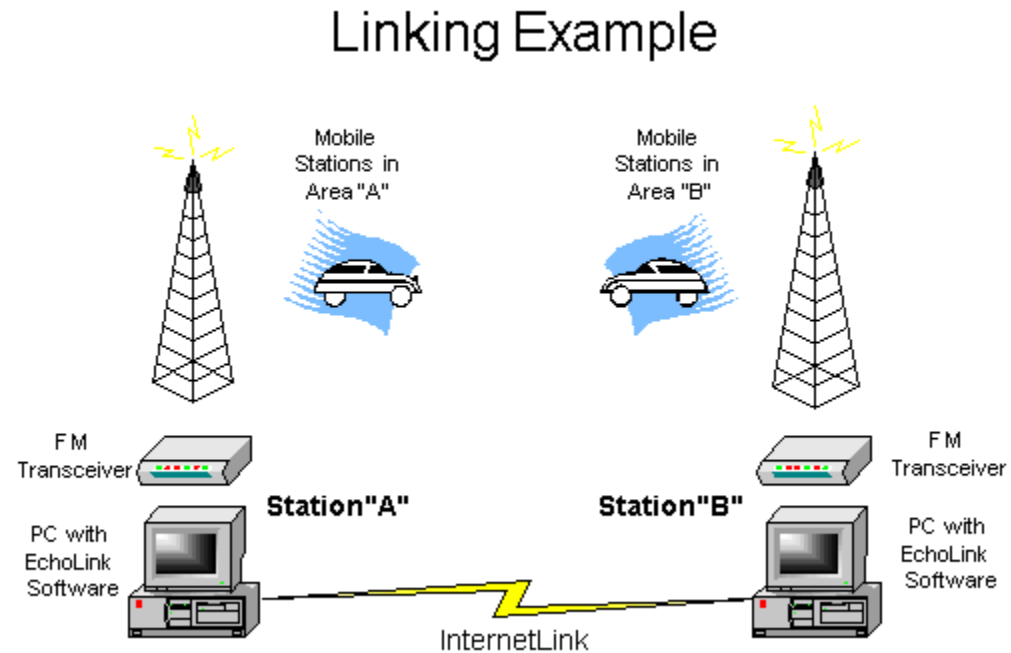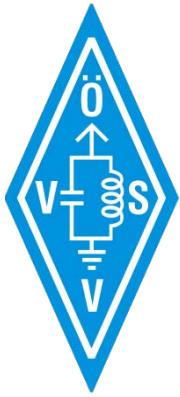
THz-frequencies

Communication experiments on visible light over 100km distance!
Do we consider this Amateur radio?
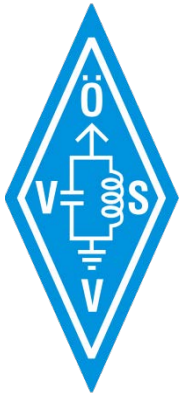

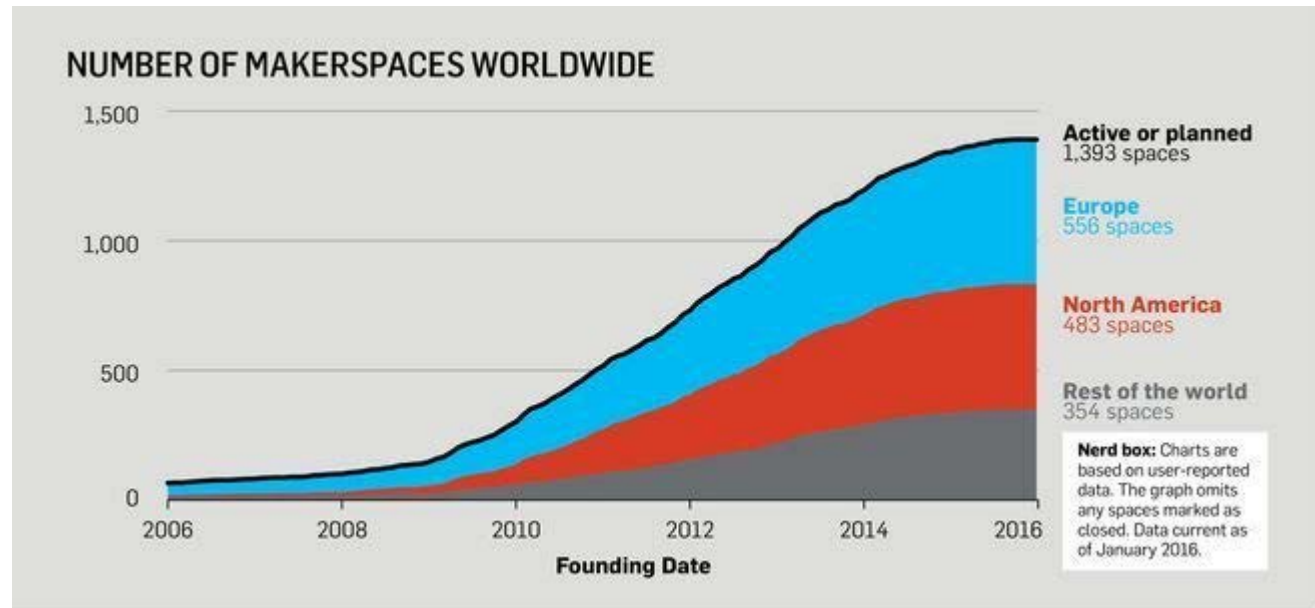(c) OM1ARL Robo - Laser QSO EQ

What is AMATEUR RADIO ?

- experimental radio service
- emergency communication
- traditional morse code
- old fashioned ?
- playing with all kind modern wireless technology
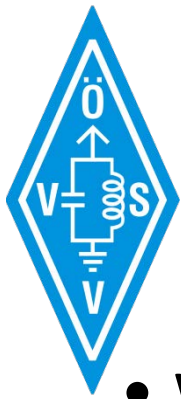- international friendship
- satellites and space

Change fundamentally?

- Consider all conference papers
- How should Amateur Radio be defined in future?
- How could we integrate with Hackspace?

NUMBER OF MAKERSPACES WORLDWIDE

Active or planned
1,393 spaces

Europe
556 spaces

North America
483 spaces

Rest of the world
354 spaces

Nerd box: Charts are based on user-reported data. The graph omits any spaces marked as closed. Data current as of January 2016.

Founding Date

New target groups

- Wifi Experimenters (open city networks)
- „Hackers" and IT-Clubs
- Technical schools (IoT Experiments)
- Technical universities (Satellite, Space exploration, Environmental)
- Sailing, Caravan and off-road enthusiasts
- „Preppers" and Emergency agencies (Fire, Medical, civil protection)
- Hikers and outdoor enthusiasts
- Scouts and youth organisations
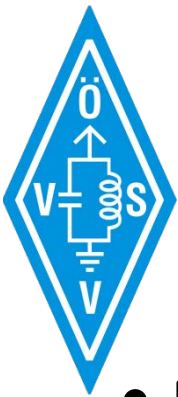- Drohne pilots (FPV)
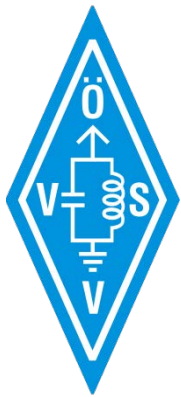
Do we need Entry Level Licence?
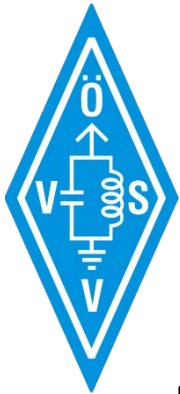

Hera 11 yrs and Florian 10 yrs

Licensing issues

- Remove entry barrier
- Current HAREC requirements are high
- Entry level (foundation) license should be international
- Allow homebrew & experiments, but not for TX&PA
- Upgrade path to next level
- Upgrade to HAREC
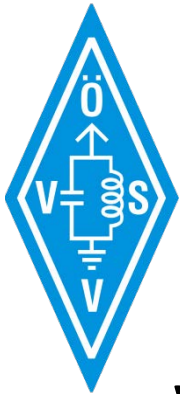- Modernise question pool
- Remove minimum age

Entry Level license

- Easy exam done by national society
- Fully include newcomers into society
- Allow homebrewing of antennas, receivers, accessories.. No TX
- Access to 10m,6m,2m,70cm,13cm,6cm
- Integrate special interest groups…
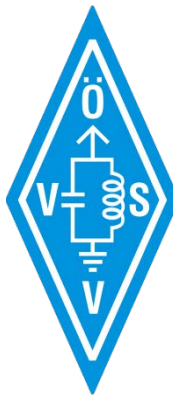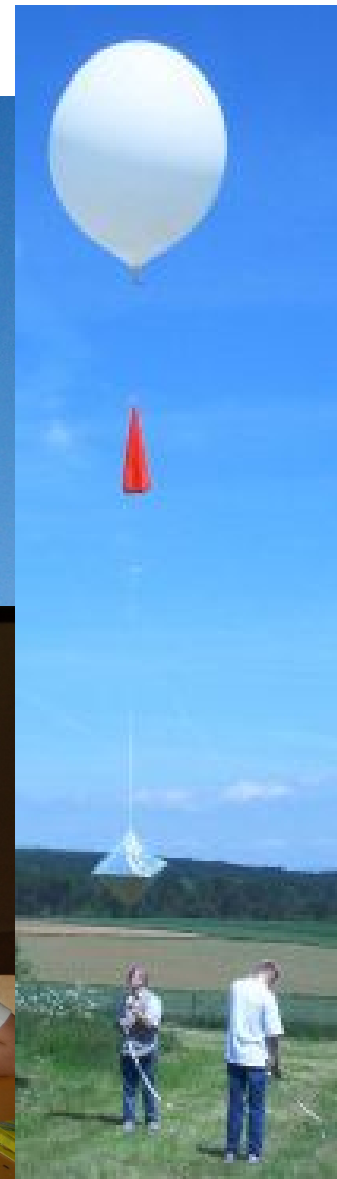- Push for international ROAMING of Entry Level Lis

Youngsters on the Air

- What role can YOTA play?

- Refocusing /Multiplier
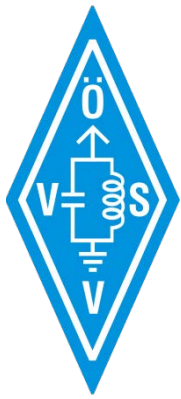
- Familiar with social media

Amateur Radio at school

- Kids-Day
- Environmental experiments
- STEM projects
- Electronic kits
- Computer & radio
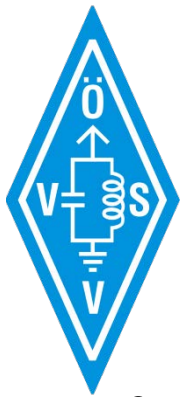- Contacts to other schools
- Languages
- Future profession

© ÖVSV

Our image in public?

- How effective is our PR
- Perception in public
- What needs to happen?
- What will help?
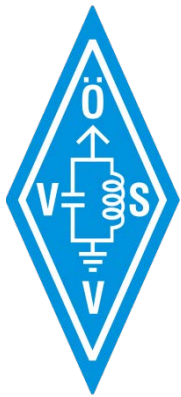- Things that will not help
- Who does what?

Actions

- Actively change image of Amateur Radio (modern vs retro)

- Include all experimenters and enthusiasts

- Change licensing system to a 3 step system
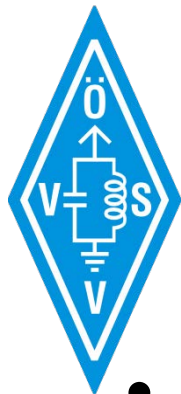
- Cooperate with organisations (MOU)

Welcome new members

- How integrate newcomers in MS

- Organisational cahnges needed?

- How do we communicate with new radio amateurs?

- Is local clubmeeting fun for youth?

Further Actions

- Prepare a documentation to explain amateurs radio projects and how it can be introduced into schools at each level in the way to obtain formative credits

- Prepare documentation to explain what amateur radio activities are to help groups of hams involved into introduction of hamradio in schools or scouts

- Create a video collection from IARU, done by youngsters, talking about their hamradio experience, to share on social networks.

- Using competitions to boost knowledge of hamradio into youngsters (I.e. orienteering for ARDF and contesting in general); we experienced in YOTA camps that youngsters love competition in general.
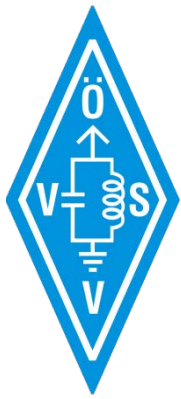
Open for discussion

- What do you think?

- Come up with an effective growth strategy

- Who is doing what, till when-Action