

JUMPING JIVE WP3: *New Partnerships*



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JUMPING JIVE project
kick-off meeting
Leiden, NL, 21 Feb 2017

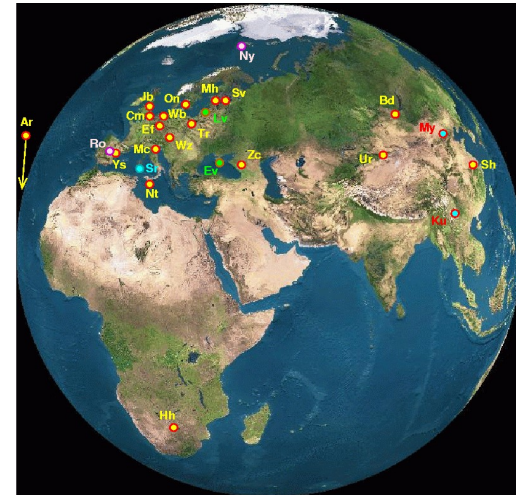
WP3 background



- **VLBI: international by its very nature**
- **EVN in operation since ~1975**
 - from 4 antennas in Western Europe



- to global coverage, ~30 antennas,
> 20 institutes in 14 countries
- all were “new partners” – at some point
- *BTW: Quality Assurance Programme (QASP) a precursor of WP3 in 1994-97*



WP3 scope



- **“Large N” is and will remain a factor of growth in VLBI**
- **Incentives for joining “VLBI club”**
 - Involvement in cutting-edge research
 - Direct access to intellectual property of the global science endeavor
 - Joint exploitation of the global VLBI potential for national sci priorities
 - Joint exploitation of the educational and PO potential of VLBI
- **Implementation of WP3 in three tiers:**
 - Tier 1 – experienced and active VLBI centres;
 - Tier 2 – “EVN-unaffiliated” user groups;
 - Tier 3 – “seed” activity with new groups (in new countries)
- **Key words: “globalisation” [of VLBI] and SKA [& VLBI]**

WP3 implementation: Tier 1



- **Objectives:**
 - Facilitating joint science, R&D, educational and PO activities with organisations/countries already collaborating with EVN and JIVE;
 - preparation (ground work) for admission of the Tier 1 countries into JIV-ERIC.
- **Partners:** countries and organisations already involved in various ways into EVN, JIVE and/or JIVE-related FP7 or other joint activities
 - *Aalto University, Metsähovi Radio Observatory, FI* 
 - *Ventspils International Radio Astr. Centre, LV* 
 - *Auckland U of Technology, Auckland, NZ* 
 - *Center for Astrophysics, N. Copernicus U, Toruń, PL* 
 - *Institute of Applied Astronomy, St.Petersburg, RU* 

WP3 implementation: Tier 2



- **Objectives:**

- ground-work for establishing/broadening of involvement of scientists, engineers and students from Tier 2 countries/organisation in VLBI activities;

- **Partners:** organisations involved in VLBI activities consistent with EVN/JIVE mission but not members of either

- Konkoly Observatory, Budapest, HU

- *one of most active user groups unaffiliated with EVN*



- Cork University College, Cork, IR

- *experienced user group, educational facility*



- Radio Astronomy Institute, Kharkiv, UA

- *a well-established school of low-frequency radio interferometry,*
- *disproportionally small users community*



WP3 implementation: Tier 3



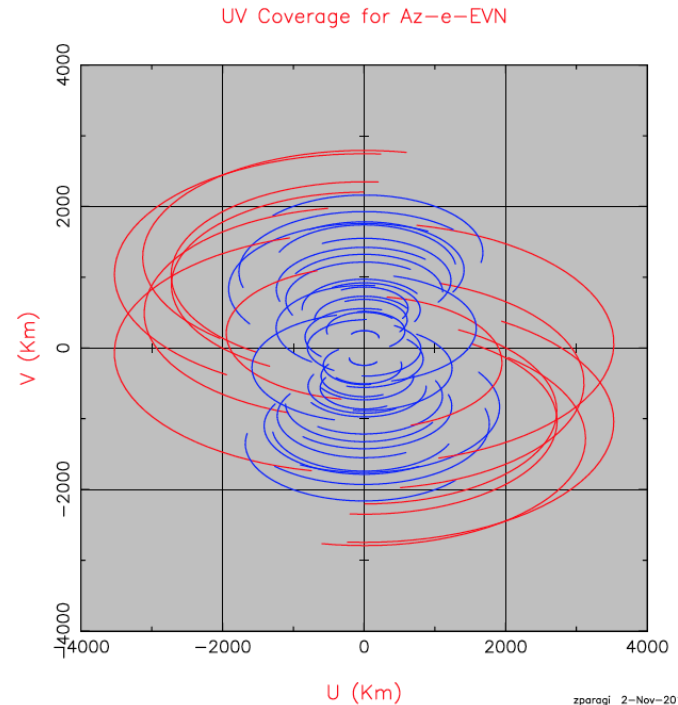
- **Objectives:**
 - assistance in creating a case for VLBI research
 - assistance in national educational and PO activities.
- **Partners:** countries/organisations with declared interest in radio astronomy and VLBI, but without established facilities and/or sizable user groups. Examples:
 - Weizmann Institute and Tel-Aviv University, IL
 - *radio astronomy groups under development,*
 - *strong relevant theoretical schools;*
 - Santiago University (Aviero) et al., PT
 - *strong interest in radio astronomy related technology,*
 - *Involvement in SKA,*
 - *VLBI antenna(s) on Azores.*



Tier 3 example: Azores 30-m antenna



EFLSBERG
MEDICINA
NOTO
ONSALA85
YEBES40M
TORUN
WSTRBORK
AZORES
0234+285



NB: very useful examples of Warkworth, NZ, and Irbene, LV

WP3 implementation means



- Assistance in
 - formulating science cases (all Tiers);
 - science and technology assessment (Tier 3);
 - establishing national VLBI “seed-groups” (Tiers 2 & 3);
 - preparation of JIV-ERIC admission documents (Tier 1)
- Organisation of joint “in situ” seminars
 - aiming at capacity building (domestic and global);
 - in particular, in coordination with relevant RadioNet WPs
- Assistance in educational activities
 - e.g. lecturing in Latvia, New Zealand, Ukraine;
 - involvement in MSc and PhD co-supervision?
- Participation in relevant [national] PO activities

WP3 programmatic



Duration – 48 months

List of deliverables

Deliverable Number ¹⁴	Deliverable Title	Lead beneficiary	Type ¹⁵	Dissemination level ¹⁶	Due Date (in months) ¹⁷
D3.1	Inventory of state of VLBI involvement	1 - JIV-ERIC	Report	Public	8
D3.2	Progress report on working with national representatives	1 - JIV-ERIC	Report	Public	24
D3.3	Final report on JIV-ERIC memberships	1 - JIV-ERIC	Report	Public	46

Description of deliverables

As it is impossible to predict when and which country will make progress in this complex process, the deliverables will be limited to a number of evaluations:

D3.1 : Inventory of state of VLBI involvement [8]

Inventory of state of VLBI involvement

D3.2 : Progress report on working with national representatives [24]

Progress report on working with national representatives

D3.3 : Final report on JIV-ERIC memberships [46]

Final report on JIV-ERIC memberships