



# Working Group 5

## Report on Inclusiveness & STSMs

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**Main Goal of WG5:** To assure effectiveness of Inclusiveness Policies within VBSCAN (geographical, gender, age...)

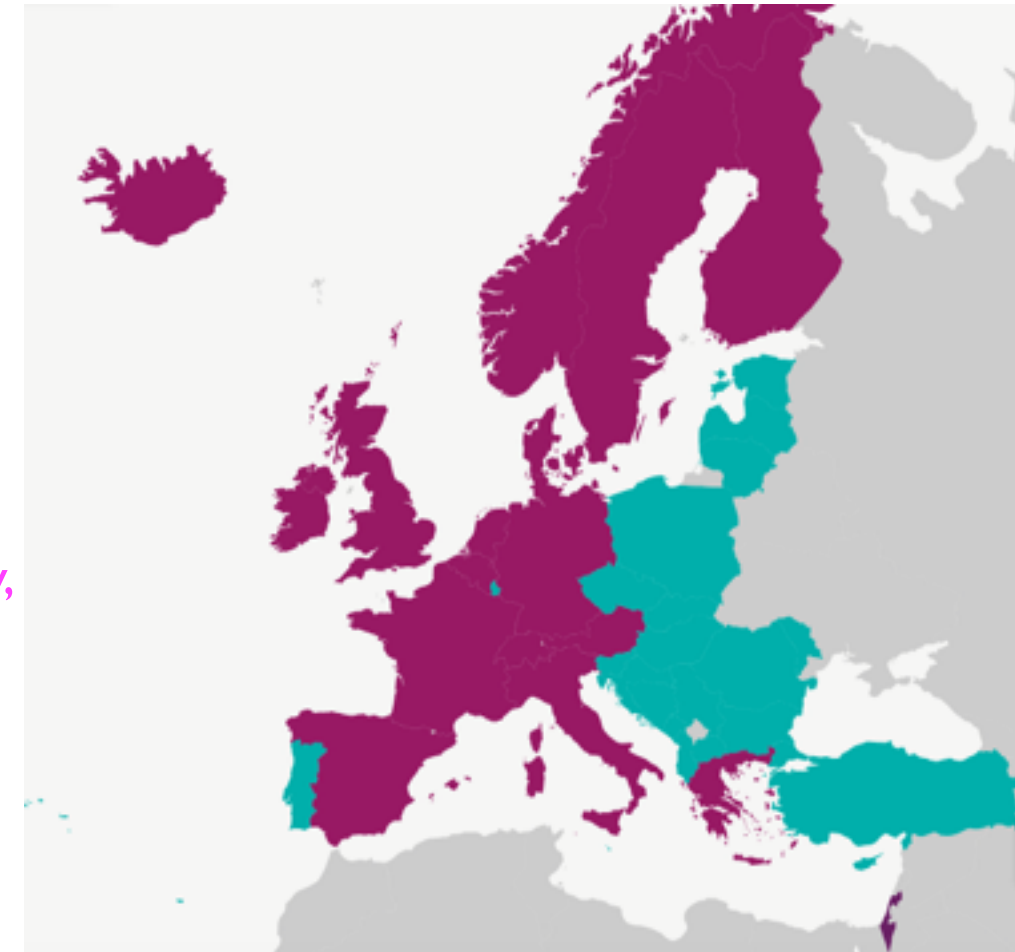
main aim	Full inclusion of researchers that, for geographical or sociological reasons, might need specific policies to get on the same footing as the rest of the community.
Tasks & deliverables	<ul style="list-style-type: none"><li>• ECI promotion through STSM and as managers of the Action</li><li>• counteract gender imbalances, also promoting women in manager positions</li><li>• support members of COST ICT through STSM and organisation of events there</li></ul>
milestones	<ul style="list-style-type: none"><li>• Review of the effectiveness of inclusion policies every six months</li><li>• organisation of topic discussions on inclusiveness issues during the yearly meetings, the MTSM and the final conference</li></ul>



# Inclusiveness II

## VBSCAN Geographical Inclusiveness:

- 24 COST member countries
- One Near Neighbour Country (NNC)
- Three International Partner Countries (IPC)



**COST Inclusiveness  
Targeted Countries (ITCs)**

### COST Members/Cooperating Member:

Albania, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, North Macedonia, Malta, Moldova, Montenegro, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom; and Israel (Cooperating Member).

### Near Neighbour Countries:

Algeria, Armenia, Azerbaijan, Belarus, Egypt, Georgia, Jordan, Kosovo, Lebanon, Libya, Morocco, the Palestinian Authority, Russia, Syria, Tunisia and Ukraine.

### International Partner Countries

Brazil, China, USA

**Action Item: Include more countries in VBSCAN  
Priority to ITCs**





## VBSCAN can receive applications for STSMs (Short Term Scientific Missions) The procedure (for applicants)

- The documents should be sent to <https://e-services.cost.eu/stsm/apply/> and to the STSM coordinator
- pre-approval by the VBSCan STSM committee within a month
- book travel
- Complete a STSM
- Present a final report within a month after completing a STSM
- approval by the VBSCan STSM committee within a month and reimbursement of expenses

The STSM committee: WG4+WG5  
leaders & deputies + Pietro + Claude



# Summary of STSMs

## STSMs completed applications btw January to June 2019

Number of STSMs	13
Number of ECIs funded	6
Number of researchers from ITCs	4
Number of female researchers	5
Total grant amount awarded	21997 Eur
Total number of days	169

### Topics:

- VBS analysis in the CMS experiment
- Improvement and refinement of tools towards the computation and precise description of vector-boson scattering at the LHC
- Global fit on the parameters of Dimensions-6 or Dimension-8 operators of the SM effective Field Theory (x 3 person)
- Electroweak corrections for VBS at the LHC
- VBS studies using same-sign WW events using full Run-II LHC data
- Color evolution in VBS/VBF
- BDT and DNN multivariate analysis techniques for VBF jets
- Rapidity-dependent, Dynamic Jet Vetoes in VBS searches for Type II Seesaw Scalars
- Comparing the SMEFT and eCHL in the context of VBS experimental analyses
- Electroweak corrections for VBS at the LHC



# Summary of STSMs

## STSMs completed applications after June 2019

Number of STSMs	5
Number of ECIs funded	-
Number of researchers from ITCs	2
Number of female researchers	1
Total grant amount awarded	10300 Eur
Total number of days	66

## Topics:

- VBS ZZ to 4I with CMS
- New techniques in VBS study part 2
- Run 2 Analysis Collaboration of Ioannis Karkanias with ATLAS group of LAPP Annecy
- Advance Techniques to Maximize the Information Content of Multivariate and Multiparameter Estimation in the Framework of SMEFT Approach (x2 person)



# Summary of STSMs

## STSMs uncompleted applications after June 2019

Number of STSMs	2
Number of ECIs funded	-
Number of researchers from ITCs	-
Number of female researchers	-
Total grant amount awarded	2780 Eur
Total number of days	23

### Topics:

- Extensions of the Same-Sign WW VBS analysis
- New techniques in VBS study part 3



## **VBSCAN has exploited to the maximum the possibilities for STSM applications**

Several applications from PhD students and Early Career Investigators (ECIs) have been received and accomplished (see Summary)

### **To be discussed:**

How do we proceed from now on ?

Options:

- Increase STSM budget?
- Select projects ?
- Priorities to certain “more hot” subjects ?
- .....

