

- 1. Group members, duties and activities
- 2. Survey results
- 3. Actions from the survey and suggestions for the discussion

M.T. Botticella & S. Benetti on behalf of WG13



GROUP MEMBERS, DUTIES AND ACTIVITIES

M.T. Botticella & S. Benetti on behalf of WG13

WG13 MEMBERS

Leader: Stefano Benetti stefano.benetti@inaf.it

Deputy: Maria Teresa Botticella maria.botticella@inaf.it

about 30 members from different countries

- E. Cappellaro, N. Elias-Rosa, A. Pastorello, L. Tartaglia, L. Tomasella, A. Reguitti, I Salmaso, G Valerin
- A. Harutyunyan, L. Izzo, M. Della Valle
- S. Campana, M. Landoni, L. Asquini
- S. Piranomonte, E. Mason
- I. Arcavi
- G. Pignata, F. Bauer, J. Anderson
- S. Smartt, M Nicholl
- S. Mattila, R. Kotak, T. Kangas, H. Kuncarayaktii, S. Tsygankov, V. Neustroev, P. Charalampopoulos, T. Nagao

Anyone wishing to join, please contact Stefano

WG13 TASKS

- Coordinating of WG activities related to the process of target classification
- Training and supporting on duty teams during operations
- Monitoring and supervising the classification results
- Improving the efficiency of the process of target classification
- Select / highlight unknowns or new classes of transients

WG13 TASKS

To enhance transient science with classification process

Increasing the efficiency of selection of classification targets

- broker filtering
- selection criteria for classification targets

Improving the accuracy of photometric and spectroscopic classification

- templates for the spectroscopic classification tools
- training set for Machine Learning based classifiers
- analysis of transitional transients

WG13 ACTIVITIES

- □ during the preparatory phase
- during operations
- □ as SOXS proceeds

Classification is the biggest challenge for SOXS programme



Preparatory phase

Target selection	Target observations and classification	Classification data release
WGs	Scheduler and Pipeline team classification tool developers	SB and WGs

WG13 activities

collect selection criteria plan a strategy for classification test of target injection in Marshall and scheduler coordinate the efforts

- to implement classification tools
- to collect templates from WGs
- for training of on duty teams

guidelines

draft of report for SOXS Consortium templates for TNS, GCN ...

Preparatory phase

What we did so far

- A survey to collect info from WGs on the target selection and priority criteria
- A project to implement classification tools
- A meeting on scheduler with Laura and Sergio

Preparatory phase What we are going to do

In the next months

- A meeting with Marshall developers
- Simulations of the injection of classification targets in the SOXS Marshall and scheduler

During the commissioning phase

- A workshop dedicated to SOXS data reduction with hands-on sessions for training
 to run pipeline
 - •to properly extract 1D spectrum
 - •to use classification tools
- Dry run for on duty teams

Operations

Target selection	Target observations and classification	Classification data release	
WGs	On duty team	On duty team	
WG13 activities			

support of on duty teams

supervision of classifications

database with classification statistics

AS SOXS proceeds

WG 13 activities

Database analysis

Check final classifications Cross-check with early-classifications for transients with uncertain classification or transitional type transients Statistical analysis for legacy projects

New template sample

Collect NIR template and very early phase template templates for new transient classes

Training set sample

Selection of a sample with both well sampled light curves and spectroscopic classification

Questions?