REPORT FROM THE ESO WORKING GROUP ON SCIENCE DATA MANAGEMENT

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Martino Romaniello, Working Group Chair on behalf of its members
SCIENCE DATA MANAGEMENT

- Ensure the science content of data

- Ensure that the science content can be reliably extracted from the data

- Make science data available in a user-friendly and scientifically useful way
THE WORKING GROUP

• Formed by, and reports to, ESO’s Director for Science
• Direct outcome of the global prioritisation exercise “Science Priorities at ESO” (ESO/STC-551)
• Remit: where, why and how to position ESO in the area of Science Data Management to maximise the science return for its very wide, varied and active community
• Membership: Maria-Rosa Cioni (Potsdam, UC), Sofia Feltzing (Lund, STC), Françoise Genova (Strasbourg), Bob Mann (Edinburgh), Céline Péroux (Marseille), Martino Romaniello (ESO, Chair), Martin Zwaan (ESO)
TIMELINE

- Established in October 2015
- Face-to-face kick-off meeting: ESO HQ, January 25-26, 2016
- Progress videoconferences every 3-4 weeks
- Preliminary verbal report to Users Committee 40 (April 2016)
- Final written report on September 30, 2016
- Presented to STC 88 (October 2016), for information
- Publicly available at
THE REPORT

• The challenges facing the ESO science community
• The case for PI science
• The case for archive science
• The interplay between ESO and the community
• ESO’s role in the wider world of science data

• 9 Recommendations, 11 Detailed Actions
KEY FINDINGS

• Enabling the optimal exploitation of its data is core to ESO’s main mission

• PI and archive research are complementary, both produce outstanding science

• The community has expertise and motivation to collaborate with ESO
  • Establish collaborations for the delivery of specific tools or products

• Top recommendation: establish a Science Data Programme to enable and ensure the conditions for the optimal use of ESO’s data
  • Inwards: Coordinate interfaces and connect facilities
  • Outwards: Foster and coordinate community collaborations
FEEDBACK FROM STC


“STC thanks the group for their report, which they believed was very thorough and raised issues about the needs of the community where ESO leadership will be important in the future. After the report has been considered by ESO, STC would like to hear how ESO plans to develop this area and will provide suitable recommendations as necessary”