



TERABOARD

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TERABOARD

www.teraboard.eu

High bandwidth density and scalable optically interconnected Terabit/s Board

H2020-ICT-2015 n°688510

Data Management Plan

Deliverable 1.6



An initiative of the Photonics Public Private Partnership

www.photonics21.org





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Acknowledgements and Copyright

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3 Glossary of acronyms

Acronym	Definition
EC	European Commission
DMP	Data Management Plan
CAD	Computer Aided Design
RAID	Redundant Array of Independent Disks





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4 Abstract

This Deliverable describes the actions and the main elements for the constitution of a Data Management Plan within TERABOARD project.





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5 TERABOARD Data Management

In this section, it is described what types of data will be managed within TERABOARD project, together with the related metadata.

5.1 Types of Data

TERABOARD will produce an amount of information and data which can be classified in two main categories:

1. Computer software files
2. Physical devices

In the category of Computer software files, a wide variety of data is included:

- Files derived from softwares dedicated to simulations (electromagnetic, optical, thermal, mechanical and so forth) and mathematical calculations
- Files containing the fabrication layout of the photonic and electronic chips, together with CAD files reporting the geometries of other blocks and components
- File scripts for controlling simulations, softwares, laboratory equipment and physical devices
- Files derived from measurements and characterizations, that can be directly produced by the instruments or created by the operators from hand-written notes
- Files containing reports, resumes, reviews, presentations, agreements, contracts, deliverables, milestones and all the other kinds of documents produced for the exigencies of the project or to fulfill the requests by the EC
- Files containing scientific publications and intellectual properties

In the category of Physical devices are included all the prototypes that will be produced, therefore chips, circuitry, devices, connections, and so forth.





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5.2 Metadata

Metadata are data that provide information about project data. When possible, metadata and information will be incorporated together with the related data, for a safer and more direct correlation. In the other cases, proper metadata will be produced separately in order to keep trace of the produced raw data, by means of readme files and data description charts. With every block of produced data, will be also provided explanations and classification reports, to make clear the origin and the intended use of the produced data.





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6 Data sharing

In this section it is described the data sharing policy of TERABOARD project, together with information about the ways of accessing the produced data and the characteristics of data archiving within the project.

6.1 Policy

All the data produced within TERABOARD project will be available to the project members to ensure an efficient work cooperation and coordination. When the publication of data does not interfere with the objectives of the project or is not detrimental towards the intellectual and industrial properties of the involved members, the publication effort will be the first option in order of sharing the scientific knowledge and the technical knowhow gained through the project. This effort will be directed toward the publication in journal articles, thesis, books, manuscripts, conference proceedings and so forth. When possible, the published information will be located on media that are available free from charges. The related experimental and raw data will be made available at the end of the project and only after the publication of the involved scientific contributions, in open access locations such as repository data directories. Industrial secrets, commercial reserved information, confidential material and internal communication will not be published. Physical samples will not be distributed outside the project, except for the time needed for possible public demonstration in events or exhibitions.

6.2 Access to Data

Access to project data is provided in different ways. For what concerns confidential material among the members, besides physical or direct ways of exchanging such information, in the project website is included a consortium area where every member can find and download all the shared data of the project, following the link <http://www.teraboard.eu/consortium-area/> and inserting the user name and password which they were provided with. For the informational type of documents, the material is available following the link <http://www.teraboard.eu/downloads/>, while for the open access data in general the dedicated page of the





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website is http://www.teraboard.eu/open_access_data/. If some public data will be not downloadable from the website of the project, links will be provided in order to redirect toward the resources that host such material. Such resources and media could require subscription or may apply charges.

6.3 Data archiving

The data produced within TERABOARD project will be properly managed and protected. Multiple copies of data files will be generated and distributed among the members, and also kept in the hosting storage space of the project website, in order to generate redundancy. The hosting service provides a service of daily backup of the uploaded data. At CNIT National Laboratory of Photonics Networks in Pisa, a secure server with RAID configuration will be used to store all the information about TERABOARD project. Physical samples and prototypes will be categorized and stored in designed areas of the laboratories. All the kinds of data will be properly maintained and kept available for at least 3 years after the project conclusion or 3 years after their public release. Data supporting patents will be retained for the entire term of the patent. In any case, longer archiving period will be however pursued when possible.





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7 Conclusions

In this document relevant information about data management within TERABOARD project have been reported. The types of data that will be treated have been defined, together with their metadata. A data sharing policy has been declared, and information on the access of produced data has been provided. Finally, details on the modalities of archiving data have been reported.

