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Deliverable:

EDMSDoc: Documentation of the international engineering of the ILC based on *EDMSReqUser*.

Executive summary:

As described previously, the ILC schedule has significantly shifted in time compared to the planning assumptions during the writing and evaluation of the E-JADE proposal. We now do not expect a positive decision about the construction of the machine before the end of 2018. This development already led to a very reduced deliverable EDMSReqUser in March 2016: with no ILC project formally defined and no stakeholders identifiable, it was impossible to define user requirements for an ILC EDMS.

Since March 2016, no developments or changes to the EDMS implementation have been seen that are relevant to the ILC, except for technical details. For this reason, also the present EDMSDoc deliverable cannot be met in a satisfactory way.

1. INTRODUCTION

EDMS – engineering data management systems – are sophisticated management tools that are capable of facilitating smooth cooperation of hundreds to thousands of scientists and engineers from all over the world. Such systems contain the basic technical and administrative information about the project in question, and it also be capable of keeping track of its changes. EMDS have been in use for a while already, not least during the technical design phase (TDP) of the ILC that ended with the publication of the Technical Design Report (TDR) in 2013 [1].

As already described in Ref. [2], in contrast to the belief during the E-JADE proposal phase, the ILC has not yet matured into a funded project. For this reason, activities that would form part of a concrete engineering design phase have not been started yet, and the ILC EDMS system – apart from the recently introduced change management system [2] – has not changed from the TDR version¹.

2. EDMS STATUS AND NEXT STEPS

As described in Ref. [2], all ideas for an ILC EDMS system are based on the implementation provided for and used during the ILC Technical Design Phase. This EDMS will most likely be the model upon which future developments e.g. for the ILC will be based.

The latest significant change to this EDMS system was the introduction of a change management procedure [3,4] that allows keeping track and curating of the existing ILC design. The necessary next steps for all further significant EMDS actions would first and foremost need the existence of a project, with committed parties and a defined goal for the next project phase.

3. CONCLUSIONS

Compared to the planning assumptions during the writing and evaluation of the E-JADE proposal, establishing an ILC project has been significantly shifted in time; we now do not expect a positive decision about the construction of the machine before the end of 2018.

Without the context of a project and a project organization, the work for the EDMSReqUser and EDMSDoc deliverables cannot be conducted, as neither the stakeholders are known nor the extent to which an EDMS system shall be used are defined. Also the engineering design phase has not started.

The EDMS installation created by DESY for the Global Design Effort is in continuing use in the LCC and evolves to support more processes, such as the recently introduced formal Change Management process. The experience from this continued activity will form the basis for a requirements document and for a detailed documentation of the final ILC EDMS as soon as the project proceeds to a new phase.

¹ Since no changes will take place until the end of 2018 – the formal due date of this deliverable report – E-JADE took the liberty to hand in the report early.

4. REFERENCES

- [1] T. Behnke et al. (eds.), “The International Linear Collider Technical Design Report”, vols. 1-4, 2013. Available from <https://www.linearcollider.org/ILC/Publications/Technical-Design-Report> (last accessed 17 May 2018).
- [2] E-JADE deliverable report no. 17 “EDMS User Requirements List (EDMSReqUser)”, 2016. Available from https://www.e-jade.eu/publications/deliverable_reports/ (last accessed 17 May 2018).
- [3] B. List, M. Harrison and N. Walker, “Change Management for the ILC”, 2014. Available from <https://edmsdirect.desy.de/edmsdirect/file.jsp?edmsid=D00000001057375> (last accessed 17 May 2018).
- [4] ILC Change Management web site: <http://ilc.desy.de/cm/>