Annex 5. The WLCG Collaboration

**Terminology:**

MB: the WLCG Management Board

OB: the WLCG Overview Board

CB: the WLCG Collaboration Board

LCG: LHC Computing Grid, a CERN project supporting the aims of the WLCG

The Organizational Structure of the WLCG Collaboration

1. The WLCG is a worldwide collaboration, largely modeled on the CERN experimental collaborations. Within it, the LCG is a CERN project supporting the aims of the WLCG. The LCG Project Leader is appointed by the CERN Director General in consultation with the CB, with a four year mandate. By convention, and for matters of practicality, the LCG Project Leader represents the WLCG Collaboration to the outside and leads it in all day-to-day matters, becoming the WLCG Leader. The WLCG Leader can nominate one or more deputies to support the broader collaboration, to be endorsed by the CB. The LHC experiments are ALICE, ATLAS, CMS and LHCb. The CB can endorse other experiments joining WLCG as associate members. The LHC experiments and the associates are referred to as “the WLCG experiments”.
2. High-level Committees:
   1. Concerning its main technical directions, the WLCG Collaboration shall be governed by the **WLCG Collaboration Board** (CB). The CB shall be composed of a representative of each Institution or federation of Institutions that is a Member of the WLCG Collaboration, the WLCG Leader and deputies and the Spokespersons of each LHC Experiment, with voting rights; the CERN Director of Research and Computing(DRC), and CERN/IT and CERN/EP Department Heads, as ex-officio members without voting rights, as well as a Scientific Secretary without voting rights. The CB elects the **Chairperson of the CB** from among its Members, with a four year mandate. The CB meets annually and at other times as required.
   2. A standing committee of the CB, the **Overview Board** (OB), has the role of overseeing the functioning of the WLCG Collaboration and of this MoU in particular. It also acts as a clearing-house for conflicts that may arise within the WLCG Collaboration. The OB shall be chaired by the CERN DRC. Its other members comprise one person per Tier-1 Centre appointed by the agency/agencies that funds/fund the Tier-1, the chair of the CB, two Tier 2 representatives appointed by the CB, the Spokespersons of the LHC Experiments, the WLCG Leader and deputies, the CERN/IT and CERN/PH Department Heads, and a Scientific Secretary. It meets two times per year.

Both the CB and the OB may co-opt additional non-voting members as they deem necessary. The non-voting members complement the regular members by advising on (e.g.) matters concerning the environment in which the WLCG Collaboration operates or on specialist aspects within their areas of expertise.

1. The **WLCG Management Board** (MB) supervises the work of the WLCG Collaboration. It is chaired by the WLCG Leader and reports to the OB. The MB organises the work of the WLCG Collaboration as a set of formal activities and projects. It maintains the overall programme of work and all other planning data necessary to ensure the smooth execution of the work of the WLCG Collaboration. It provides a report at each C-RRB and it presents status reports at each LHCC and OB. The MB endeavours to work by consensus but, if this is not achieved, the WLCG Leader shall make decisions taking account of the advice of the Board. Two bodies oversee the development, commissioning testing and operations of WLCG services, both reporting to the MB:
   1. The WLCG Technical Coordination Board (TCB) is responsible for the technical evolution of WLCG services in line with the needs of the experiments and the capabilities of the infrastructure providers. The TCB defines a multi-year roadmap for such evolution and is responsible for its implementation. The TCB may establish ad hoc technical working groups and projects as deemed necessary to accomplish its responsibilities. The MB appoints the chair(s) of the TCB, for a period of four years. The members of the TCB should include representatives from the WLCG experiments, infrastructure and technology providers.
   2. The WLCG Operation Coordination (OPS) team is mandated to coordinate activities across WLCG stakeholders to ensure a smooth operation of the WLCG infrastructure. These activities include operations of existing services, deployment/decommissioning of new/obsolete services, upgrade campaigns and incident management. The lead(s) of the WLCG operation coordination team is(are) the WLCG service manager(s), appointed by the MB for a period of four years. The team shall comprise representatives from the WLCG experiments, sites and infrastructure projects linked to WLCG.

The MB membership includes the WLCG Leader and deputies, representatives of the Tier-0 and Tier-1 Centres, the Computing Coordinator of each Experiment, the Chair(s) of the Technical Coordination Board, the WLCG service and operation coordination manager(s), and a Scientific Secretary. Other members can be invited by the Board as necessary. The WLCG associate members have a standing invitation.

1. Variations in the technical organisation of the WLCG, including the laying down and setting-up of new boards, will be with the agreement of the CB and may be proposed by the WLCG Leader, the OB or the CB itself, and will be reflected in the regular update of this annex.
2. Concerning all scientific and technical matters, the WLCG Collaboration shall be subject to review by the **Large Hadron Collider experiments Committee** (LHCC), which makes recommendations to the **Research Board** (RB).
3. Concerning all resource and legal matters, the WLCG Collaboration shall be subject to the **Computing Resource Review Board** (C-RRB). The C-RRB is chaired by CERN's DRC. The C-RRB membership comprises a representative of each Funding Agency, with voting rights, and (ex-officio) members of the WLCG Management and CERN Management, without voting rights.
4. The CB shall ensure that the input presented by WLCG for processes and initiatives regarding the future of the relevant domain, e.g. European Strategy, Snowmass conforms to the strategy of the Collaboration.