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UNECE Executive Committee
Centre for Trade Facilitation and Electronic Business

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Vision, mission and Programme of work

**Draft Programme of work for 2020-2021 of the
Advisory Group on Advanced Technologies in
Trade and Logistics**

Summary

The Advisory Group on Advanced Technologies in Trade and Logistics will present its first draft Programme of work for 2020-2021.

This document is submitted to the first session of the Advisory Group on Advanced Technologies in Trade and Logistics for adoption.

I. Background

1. The United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) has proposed the establishment of an Advisory Group in order to advise and support the UNECE secretariat and UN/CEFACT on advanced technologies in trade facilitation and electronic business. The technologies in question include blockchain, Internet of Things (IoT), and Artificial Intelligence (AI) - the most recent areas of rapid development in the international supply chain.

2. Technology is evolving faster than ever before in human history. We are at the intersection of several cutting-edge technologies that are redefining interactions between the physical and virtual world, driving disruption and enabling new business modes. The importance of technology innovation is recognized in by the international community in Sustainable Development Goal 17: Strengthen the means of implementation and revitalize the global partnership for sustainable development.

3. These technologies such as Distributed Ledger Technology, Artificial Intelligence, Internet of Things, Quantum Computing, Edge computing, 5G and connectivity related ones, hold significant promise in trade facilitation. Given these cutting-edge developments in technology, it becomes important to keep up to date with the latest trends to evaluate which trends and approaches may be viable for future developments, investments and practical implementation.

II. Introduction

4. The present document sets out the Programme of Work for the Advisory Group on Advanced Technologies in Trade and Logistics for 2020-2021.

III. Scope, overall objective, activities, work areas

A. Scope

5. The work of the Advisory Group shall have a scope that potentially covers all UN member States as well as international trade organisations and other organisations involved in technological development and technological implementation activities. It encompasses activities in support of sustainable trade and sustainable economic development.

6. It does so by monitoring and analyzing technology trends in trade and logistics, promoting, facilitating and supporting the implementation of technology standards, including proposing any necessary developments of such standards.

7. The Programme of work is linked to the Terms of Reference (ECE/EX/2/Rev.1) as approved at the thirty-fifth meeting of the UNECE EXCOM (31 March 2010).

B. Objective

8. The purpose of the Advisory Group is to advise on advanced technologies such as blockchain and IoT, as well as implementation challenges (i.e. regulatory obstacles). This includes the potential impact of these technologies on standards, services and everyday electronic exchange operations.

C. Activities

9. The Advisory Group aims to support UN/CEFACT in achieving this objective by:
 - (a) Monitoring the business needs related to these technologies and how they relate back to UN/CEFACT and its deliverables;
 - (b) Supporting dialogue with key external stakeholders;
 - (c) Providing advice and expertise on implementation requirements and challenges;
 - (d) Identifying new work items which will support the role of UN/CEFACT and its deliverables in the context of these technologies;
 - (e) Preparing synopses of good practices on selected issues within the Group's mandate for discussion and endorsement by the Bureau; and
 - (f) Providing support to senior managers on advanced technology issues, especially in the context of how these can be used with UN/CEFACT standards and UNECE recommendations.

10. Under the guidance of the UNECE secretariat, the Advisory Group may invite the participation of other organizations actively exploring the applications of this technology or their membership, including the International Telecommunication Union (ITU), the United Nations Office for Project Services (UNOPS), the World Food Programme (WFP), the United Nations Development Programme (UNDP), the World Bank, the International Monetary Fund (IMF), the International Organization for Standardization (ISO), the Organization for Economic Cooperation and Development (OECD), the World Economic Forum (WEF), and other relevant standards development organizations.

D. Work areas

11. The Programme of work is structured around the following work areas (WA):
 - WA1: Technical monitoring, assessment and advice.
 - WA2: Implementation challenges and good practices.
 - WA3: Support strategic dialogue with key external stakeholders.
 - WA4: Proposition of new development.

WA1: Technical monitoring, assessment and advice

12. This Work Area involves monitoring and analyzing of the current and emerging technologies used in trade and logistics areas. This Work Area encompasses active engagement with technology leaders, developers and early adopters on a global scale, by contributing to events on technology developments related to trade and by contacting authorities, standardization organizations and academia.

WA2: Implementation challenges and good practices

13. The Work Area on implementation challenges and advice facilitates and supports the implementation of the relevant advanced technologies on business, interoperability legal and technical level. The Advisory Group shall contribute by identifying and advising on business, legal and technical implementation issues of the technology and sharing best practices, with a specific focus on the support of decision making.

WA3: Support strategic dialogue with key external stakeholders

14. Activities of the Work Area are:

- Creating the content for UNECE website of the Advisory Group (maintenance, content and design, including possible use of social media and videos);
- Contribution to relevant events within the UN and in other organizations to disseminate the work of UN/CEFACT and the Advisory Group (in line with the internal UN/CEFACT Representation Guideline);
- By sharing knowledge and expertise through partnerships, the Work Area will reach out to trade and logistics management organisations and technical communities to exploit the benefits and to minimise the chance of working separately on the same issues;
- Capacity building in the use of such technologies in Trade and Logistics.

WA4: Proposition of new development

15. The Advisory Group shall identify areas where new standards or guidance material are necessary and propose such work items to be launched within UN/CEFACT under the Open Development Process (ECE/TRADE/C/CEFACT/2016/17) procedure for project development.

IV. Governance

16. Participation in the Advisory Group will be on a self-funded, voluntary basis. All members of the Advisory Group must register as experts of UN/CEFACT, in accordance with relevant procedures. All contributions to the work of the Advisory Group are in the context of the UN/CEFACT IPR Policy (ECE/TRADE/C/CEFACT/2010/20/Rev.2) and the Code of Conduct (ECE/TRADE/C/CEFACT/2010/18/Rev.1) and the overarching UN/CEFACT Mandate and Terms of Reference (ECE/TRADE/C/CEFACT/2017/15).

17. The Advisory Group appoints its Chair and Vice-Chair(s) for a mandate of two years, in accordance with the Guidelines for the establishment and functioning of Teams of Specialists (UNECE ECE/EX/2/Rev.1).

18. The Advisory Group will plan at least one face-to-face meeting per year and virtual meetings as necessary.

19. It is the responsibility of the Chair that the objectives of the Group are met, and all relevant procedures properly applied including this Programme of Work.

20. The UNECE secretariat provides necessary support to the Advisory Group within available resources.

V. Reporting

21. The Advisory Group will report to the UN/CEFACT Plenary annually and will keep the UN/CEFACT Plenary Bureau informed of its activities.
