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Annex 1

Memorandum of Understanding for the Co-programmed European Partnership for Artificial Intelligence, Data and Robotics

The AI, Data and Robotics Association (ADRA) ASBL, representing the partners other than the Union (its constituent entities¹), the registered offices of which are in Boulevard A. Reyers 80, 1030 Brussels, Belgium, hereafter referred to as the “Partners other than the Union”, and the European Union, represented by the European Commission, (jointly hereinafter referred to as “the Partners”),

Considering that:

- Parts of Horizon Europe – the Framework Programme for Research and Innovation (‘Horizon Europe’)² – may be implemented through Co-Programmed European Partnerships, on the basis of a Memorandum of Understanding between Partners determined to support the development and implementation of research and innovation activities of strategic importance to enable the Union to address global challenges and maintain its competitiveness in line with EU priorities, including the Sustainable Development Goals;
- The Strategic Plan for Horizon Europe³ has identified a candidate for a Co-Programmed European Partnership for AI, Data and Robotics, considered instrumental to deliver scientific, economic and societal impact in line with the Horizon Europe objectives;
- The proposal received from the Partners other than the Union has been positively assessed by the European Commission in that it fulfils the new ambition and the selection criteria referred to in Article 10 and Annex III of Regulation (EU) 2021/695 of the European Parliament and of the Council⁴ (‘Horizon Europe’);
- The implementation, monitoring and evaluation of the European Partnerships will comply with the criteria referred to in Annex III of Horizon Europe, including an alignment with Horizon Europe monitoring and evaluation provisions, set out in Article 50 and Article 52, as well as Annex V on Key Impact Pathways;

¹ Constituent entities are the members of the Association.

² Regulation (EU) 2021/695 of the European Parliament and of the Council of 28 April 2021 establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination (OJ L 170, 12.5.2021, p. 1–68.)

³ <https://op.europa.eu/en/web/eu-law-and-publications/publication-detail/-/publication/3c6ffd74-8ac3-11eb-b85c-01aa75ed71a1>

⁴ OJ L 170, 12.5.2021, p. 1–68.

- The multi-annual Strategic Research and Innovation Agenda (SRIDA) agreed by the Partners will provide the basis for the development of the co-operation under this Memorandum of Understanding, and for defining the annual priorities in line with the Strategic Plan for Horizon Europe;
- Regulation (EU) 2020/852⁵ establishes the general framework for determining whether an economic activity qualifies as environmentally sustainable for the purposes of defining sustainable investments. It creates a common reference that investors, banks, industry and researchers can use when investing in projects and economic activities that have a substantial positive impact on climate and environment and no significant harm on any of them. It is the reference for green investments in the Union;
- Funding sources other than Horizon Europe (other Union programmes as well as external funding sources, including those from Member States) will be explored in order to contribute to the achievement of objectives of the Co-programmed European Partnership in line with Horizon Europe objectives;
- The Partnership addresses the key priorities for Europe as set out in the Commission Communication “Coordinated Plan on Artificial Intelligence” COM(2021) 205⁶, in the “White Paper on AI”⁷, and the European Data Strategy⁸;
- Pursuant to Article 2 of the Statutes of ADRA, the Partners other than the Union engage in the European Partnership for AI, Data and Robotics with the European Commission to promote, facilitate and carry out the research, innovation, dissemination and other activities aiming at market, regulatory and societal uptake, including workforce training, necessary to achieve the objectives specified in Section 1 below;
- This Memorandum of Understanding constitutes an agreement in which the Partners will undertake all efforts necessary to achieve the objectives. It is not legally binding and does not, and will not, create any contractual or pre-contractual obligations under any law or legal system. Nothing in this Memorandum of Understanding will be construed as creating any liability, rights, waiver of any rights or obligations for any Partner or as releasing any Partner from its legal obligations. Neither Partner should be liable under this Memorandum of Understanding towards the other Partner;

Have agreed the following:

⁵ Regulation (EU) 2020/852 of the European Parliament and the Council of 18 June 2020 on the establishment of a framework to facilitate sustainable investment, and amending Regulation (EU) 2019/2088 (OJ L 198, 22.6.2020, p. 13).

⁶ <https://digital-strategy.ec.europa.eu/en/library/new-coordinated-plan-artificial-intelligence>

⁷ https://ec.europa.eu/info/sites/info/files/commission-white-paper-artificial-intelligence-feb2020_en.pdf

⁸ https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/european-data-strategy_en

1 Establishment, general, specific and operational objectives

The Co-programmed European Partnership for AI, Data and Robotics, hereinafter referred to as “the Co-programmed European Partnership”, is agreed between the Partners, to be implemented in an open, transparent, efficient and flexible way.

This Memorandum of Understanding sets out a cooperative relationship for the duration of the Co-programmed European Partnership with a long-term common vision, and the Partners pledge to pursue this common vision throughout the duration of this Partnership. It will contribute to the objectives of Horizon Europe and the Strategic Plan.

The general objectives of the Co-programmed European Partnership are defined as follows:

- GO1** Secure European’s sovereignty over AI, Data and Robotics technologies and knowhow (position and control perspective dimension);
- GO2** Establish European leadership in AI, Data and Robotics technologies with high socio-economic impact (technology and innovation dimension);
- GO3** Reinforce a strong and global competitive position of Europe in AI, Data and Robotics (market dimension).

The specific objectives are the following:

- SO1** Strengthen scientific capabilities in human-centred / trustworthy AI, Data and Robotics;
- SO2** Master essential technologies in human-centred / trustworthy AI, Data and Robotics;
- SO3** Maximise the economic benefit of AI, Data and Robotics in all sectors and regions in Europe;
- SO4** Accelerate and scale-up new markets and novel applications of AI, Data and Robotics;
- SO5** Maximise the societal and environmental benefits of AI, Data and Robotics;
- SO6** Make the benefits of AI, Data and Robotics accessible to everyone everywhere;
- SO7** Build a strong and effective European AI, Data and Robotics innovation ecosystem.

The operational objectives are the following:

- OO1** Accelerate uptake by industry in all sectors;
- OO2** Lead and support excellent research raising the state-of-the-art around AI, Data and Robotics;
- OO3** Support initiatives addressing Use Cases in AI, Data and Robotics;
- OO4** Promote collaborative working with other horizontal and vertical communities and Partnerships;
- OO5** Develop and implement mechanisms to create an effective & accessible ecosystem (incl. innovation infrastructure);
- OO6** Support initiatives that engage and stimulate SMEs and Start-ups;
- OO7** Work towards aligning legal frameworks, standards & regulation;
- OO8** Support initiatives that foster AI Skill building;

OO9 Address socio-economic challenges, Missions⁹ and strengthen societal awareness.

2 Contributions and activities by the Partners

Any Union contribution, provided through the Horizon Europe Framework Programme to the Co-programmed European Partnership, will be used to fund research and innovation activities, implemented as indirect actions following open calls for proposals and contests. These activities will be subject to the Horizon Europe Rules for Participation and Dissemination.

The European Commission envisages to dedicate up to EUR 1300 million to actions within the scope of the Co-programmed European Partnership¹⁰.

The Partners other than the Union will provide input and advice to the European Commission in order to contribute to the identification of priorities of research and innovation activities and the definition of call topics to be included in the Horizon Europe Work Programmes **within the scope of the Co-programmed European Partnership's activities**.

Furthermore, **the Partners other than the Union envisage¹¹ to dedicate up to EUR 1300 million** for the period 2021 - 2030¹² in research, innovation and other activities in the area of the Co-programmed European Partnership, engaging their constituent and affiliated entities¹³ to make such investments. These contributions will complement the Union contribution and will at least match the Union contribution.

Contributions by the Partners other than the Union^{14 15 16} will take the form of:

- a. **In-kind contributions to the Actions funded by the Union**, consisting of eligible costs in accordance with the Horizon Europe rules minus the Union contribution;

⁹ Should missions be confirmed. Hereinafter, missions are mentioned under the condition that they are confirmed.

¹⁰ The maximum Union contribution may be increased in duly justified cases (e.g. with contributions to Horizon Europe from third countries if available) and when agreed by the Partners and matched by contributions from the Partners other than the Union.

¹¹ The undertaking and contribution by the Association covers only the in-kind contributions to be provided by its constituent entities and their affiliated entities (and not any contributions to be provided by its non-constituent entities or by a non-affiliated entity).

¹² The longer timeline for contributions from Partners other than the Union takes into account the fact that the contributions will materialise over a longer period.

¹³ Entities are affiliated when they have a link with the beneficiary, in particular a legal or capital link, which is neither limited to the action nor established for the sole purpose of its implementation, in accordance with Article 187(1) of the Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union.

¹⁴ In line with Annex III of Horizon Europe and referred as co-investment in Annex V of Horizon Europe.

¹⁵ Where applicable, funding from state resources must be compliant with State aid rules.

¹⁶ The European Partnership may consider the 'Do No Significant Harm Principle' pursuant to Article 17 of Regulation (EU) 2020/852 and take into account the provisions of that Regulation to improve access to sustainable finance, where relevant.

- b. **In-kind contributions to Additional Activities** that are in the scope of the Strategic Research Innovation and Deployment Agenda (SRIDA) and addressed in the annual Additional Activities Plan, which is approved by the Partnership Board. In-kind Additional activities are those activities which contribute to achieving the objectives of the Co-programmed European Partnership, including R&I at higher Technology Readiness Level (TRL) and/or to ensure demonstration, market, regulatory and societal uptake, which are in the scope of the SRIDA but are not covered by Union funding;

For the in-kind contributions generated in Actions with lower funding rates than the maximum funding rates under Horizon Europe, the funding rate will be defined individually per call topic in the Horizon Europe Work Programme. This will range from the standard funding rate for R&I actions, to reduced funding rates for certain R&I actions and for Innovation actions in line with Article 34 of Horizon Europe. The selection of topics with reduced funding rates will be discussed in the Partnership Board.

In addition, the Partners other than the Union intend to make **Investments in operational activities** that go beyond the work foreseen in the SRIDA, that contribute to achieving the objectives of the Co-programmed European Partnership and where there is a clear link between the investment and the activities of the Co-programmed European Partnership (e.g. investments in building production facilities, in training programmes for workers potentially upscaled thanks to the European Social Fund Plus (ESF+), and in other activities required for producing and putting on the market the product/service resulting from the R&I performed as part of the Co-programmed European Partnership). These Investments in operational activities are however not included in the abovementioned contributions intended by the Partners other than the Union, but they should be taken into account as leverage.

3 Governance

The Partners should convene in the form of a Partnership Board as the main forum for dialogue and steering to reach the objectives set out in this Memorandum of Understanding. Through the Partnership Board, the representatives of the Partners should agree on all issues concerning the cooperation for the Co-programmed European Partnership. The Partners through their participating representatives are considered as ‘Members’ of the Partnership Board.

The Partners agree on the composition and size of the Partnership Board, while respecting the following principles:

- Adequate representation of the European Commission services, including through acting as co-chair when meeting in the format of the Partnership Board;
- Adequate representation of SMEs;
- Adequate gender balance;
- Adequate geographical coverage.

Participation in the Partnership Board may be on a rotating basis, except for the representatives of the European Commission.

In addition, the Partnership Board may agree to invite, or nominate as observers to its meetings representatives of other European Partnerships, civil society organisations, standardisation bodies, certification bodies, regulators, public procurers as well as experts in the area of the Co-programmed European Partnership.

The Partnership Board will be co-chaired by the European Commission, represented by the lead service in charge of the Co-programmed European Partnership, and a co-chair from the Partners other than the Union, selected among their members nominated to the Partnership Board.

The Partnership Board may lay down its Rules of Procedure, based on a harmonised proposal provided by the European Commission, covering inter alia rules on confidentiality, transparency and avoidance of conflicts of interests.

In order to address strategic issues, the Partners may also convene at a higher level¹⁷ to review the work of the Partnership Board, take stock of the progress by the Co-programmed European Partnership in achieving its objectives, adjust priorities and activities according to changing market or policy needs or based on results from monitoring and evaluation activities, and discuss further ways to enhance collaboration between European Partnerships and synergies with other Programmes. The implementation of results and proposals from such high-level meetings may be subject to approval by the Partnership Board.

An Advisory Committee will advise on the priorities to be addressed, in line with the Strategic Research Innovation and Deployment Agenda and the Horizon Europe strategic planning, and suggest, in view of the progress of the Co-programmed European Partnership, adjustments or re-orientations to the Partnership Board, where necessary.

The Partners may form an Advisory Committee. The members of the Advisory Committee should reflect a balanced representation of experts and stakeholders from across Europe within the scope of the priorities of the Co-programmed European Partnership, including e.g. from academia, industry, SMEs, end-users, non-governmental and civil society organisations, stakeholder associations and regulatory bodies. The Advisory Committee may elect a chairperson from among its own members.

The Partnership Board convenes the meetings of the Advisory Committee.

The Member States and Associated Countries will be consulted through the existing AI and Digitising European Industry (AI DEI) Member State Group¹⁸.

¹⁷ For example, between the President of the Association and a Director-General from the European Commission.

¹⁸ The AI DEI Member State Group, set up by the European Commission, is currently consulted at regular intervals on the Coordinated Plan on AI. The plan is to build on this existing structure, as the high level representatives of this existing group cover well the areas of AI, Data and Robotics.

The AI DEI Member State Group should advise and actively support the achievement of objectives of the Co-programmed European Partnership and ensure synergies and complementarity with national policies, priorities and programmes. They may review information and provide opinions on the progress of the Co-programmed European Partnership towards its scientific, economic and/or societal impacts.

The AI DEI Member State Group may provide information to, and act as an interface with the Co-programmed European Partnership on the following matters:

- a) The status of activities performed under national or regional policies, priorities and research and innovation programmes which are relevant to the Co-programmed European Partnership and identification of potential areas of cooperation, including concrete actions taken or envisaged for the deployment of relevant technologies and innovative solutions at the national or regional level;
- b) Specific measures taken at national level or regional level to maximise the impacts of the results achieved, in particular dissemination events, dedicated technical workshops and communication activities;
- c) Specific measures taken at national or regional level to support the exploitation, deployment and/or scale-up of the results achieved within the Co-programmed European Partnership.

The AI DEI Member State Group may also make proposals to the Partnership Board on the above matters.

The Partnership Board convenes the meetings of the AI DEI Member State Group.

The Partners other than the Union may arrange their own governance structures, providing that these do not contradict this Memorandum of Understanding. They may invite a European Commission representative as observer to meetings of their governance structure on subjects related to the Co-programmed European Partnership. The European Commission services may participate as observers to meetings of technical groups set up by the Partners other than the Union that are relevant for the Co-programmed European Partnership.

4 Activities and commitments of the European Commission

The European Commission undertakes to duly take into account the input and advice from the Partners other than the Union when identifying and defining call topics for research and innovation activities in the scope of and linked to the European Partnership for AI, Data and Robotics to be included in the Horizon Europe Work Programmes. For this purpose, the European Commission undertakes to consult and maintain a regular dialogue with the Partners other than the Union during the preparation of the Work Programmes. The call topics will be subject to Horizon Europe comitology procedures.

The European Commission may support and contribute to the regular monitoring of the Co-programmed European Partnership, including through its participation in the Partnership Board

and in other activities, in line with the Horizon Europe monitoring provisions (Article 50). The European Commission shall also carry out in a timely manner the interim and final evaluation of the Co-programmed European Partnership feeding into Horizon Europe evaluations, as specified in Article 52 of Horizon Europe. These evaluations will inter alia be fed by a self-assessment provided by the Partners other than the Union on the achievement of objectives and how their commitments have been fulfilled and contributions made throughout the lifecycle of the Co-programmed European Partnership.

The evaluations will examine how the Co-programmed European Partnership fulfils its mission and objectives, cover all its activities and evaluate its European added value, effectiveness, efficiency, including its openness and transparency, the relevance of the activities pursued and their coherence and/or complementarity with relevant regional, national and Union policies, including synergies with other parts of Horizon Europe (such as missions, clusters or thematic/specific programmes). The evaluations will take into account the views of stakeholders, at both European and national level. The evaluations will include, where relevant, an assessment of the most effective policy intervention mode for any future action, as well as the relevance of any possible renewal of the Co-programmed European Partnership given the overall policy priorities and the research and innovation support landscape, including the coherence and positioning against other initiatives supported through the Framework Programme, in particular European Partnerships or missions.

5 Activities and commitments of the Partners other than the Union

5.1 Activities

The Partners other than the Union undertake to provide inputs and advice to the European Commission in order to achieve the objectives of the Co-programmed European Partnership. In particular, they may provide input and advice to the European Commission in order to contribute to the identification of priorities of research and innovation activities and the definition of call topics to be included in the Horizon Europe Work Programmes, in view of financial support for indirect actions following calls for proposals and contests. This is without prejudice to the outcome of the Horizon Europe comitology procedures.

The Partners other than the Union also undertake to make the following In-kind Additional Activities and Investments in operational activities in support of the objectives set out in Section 1 of this Memorandum of Understanding:

- a) Scope of In-kind Additional Activities. In-kind Additional Activities may include:
 - i. Mobilising the AI, Data and Robotics eco-system to meet the objectives of the Co-programmed European Partnership;
 - ii. Addressing the development of skills in AI, Data and Robotics;
 - iii. Raising awareness of the benefits and impact of AI, Data and Robotics;
 - iv. Driving innovation and its uptake by stimulating market enablers;
 - v. Guiding the development of standards and regulation;
 - vi. Promoting research excellence in AI, Data and Robotics.

- b) Scope of Investments in operational activities. Investments in operational activities may include:
 - i. Investments made to create manufacturing facilities and to distribute products and services;
 - ii. Investments in staff and skills development related product and service delivery;
 - iii. Operational spend unrelated to R&D&I activity.

The planning and reporting of In-kind Additional Activities and Investments in operational activities will respect confidentiality requirements.

5.2 Openness and transparency

An appropriate level of openness is necessary to achieve the objectives of the Co-programmed European Partnership. Thus, the Partners other than the Union undertake to put in place measures that ensure:

- a) An open and transparent process for consulting their constituent entities and other relevant stakeholders as well as Member States and Associated Countries on the identification of the priorities of the Co-programmed European Partnership and the design of its activities, which results in an appropriate involvement of all relevant stakeholders;
- b) A governance structure that results in a high level of openness and transparency, including publishing information on the functioning of the Co-programmed European Partnership (composition of partnership structures, decisions made by the Partnership Board etc.);
- c) A growing participation in and contribution to the Co-programmed European Partnership, supported by an open policy to membership in the Association and an appropriate level of information and, if necessary, assistance to all constituent entities of the Partners other than the Union.

In particular, the Partners other than the Union undertake to ensure that the In-kind Additional Activities that they contribute are, to the extent possible, open for participation to non-members of the Co-programmed European Partnership (e.g. dissemination and exploitation activities, etc.) and based on equal treatment.

Also, the Partners other than the Union undertake to put in place appropriate measures for informing SMEs, civil society and other relevant stakeholders about the Co-programmed European Partnership and promoting their participation.

5.3 Dissemination and communication

The Partners undertake to communicate and disseminate their activities and results broadly and through various channels, in order to ensure that any necessary information in the area of the Co-

programmed European Partnership is available to all possible stakeholders, all along its duration. The Partners undertake to engage in information, communication, publicity and dissemination and exploitation activities by applying *mutatis mutandis* Article 51 of Horizon Europe. The Partners undertake to engage in information, communication, publicity and dissemination and exploitation activities of the Co-programmed European Partnership by applying *mutatis mutandis* Article 51 of Horizon Europe.

This communication and dissemination will also ensure that the EU support to the Co-programmed European Partnership is visible.

5.4 Coherence and coordination with other European Partnerships and beyond

The Partners undertake to set up and maintain a clear strategy and plan for the interfaces and joint activities of the Co-programmed European Partnership with the other relevant European Partnerships, as well as with the broader European research and innovation system and communities.

The Partners other than the Union will establish a formal and regular collaboration with the following other European Partnerships:

The Partnership will have close collaboration with the following partnerships:

- a) European Partnership High Performance Computing;
- b) European Partnership Key Digital Technologies;
- c) European Partnership Smart Networks and Services;
- d) European Partnership Made in Europe;
- e) European Partnership for Agriculture of Data;
- f) European Partnership for Safe and Sustainable Food Systems for People, Planet and Climate;
- g) European Partnership Innovative Health Initiative;
- h) European Partnership for Connected, Cooperative and Automated Mobility (CCAM);
- i) European Partnership for Globally Competitive Space Systems;
- j) European Partnership for European Open Science Cloud (EOSC);
- k) EIT Digital-KIC;
- l) EIT Manufacturing-KIC;
- m) European Partnership Single European Sky ATM Research;
- n) European Partnership Europe's Rail;
- o) European Partnership for Photonics;
- p) European Partnership for Transformation of Health Care Systems;
- q) European Partnership for Rare Diseases.
- r) Other European Partnerships whenever deemed necessary by their respective Partnership Boards.

The SRIDA sets out further details, as appropriate, on coherence and collaboration with other European Partnerships, synergies with other Union programmes, Union bodies and national,

international, and intergovernmental programmes and policies, and the relevant parts of Horizon Europe (including missions).

The Partnership will establish formal and regular collaboration with the following types of organisations:

- a) Global bodies which address AI, Data and Robotics such as OECD, World Economic Forum and the Global Partnership on AI;
- b) Pan-European industry and consumer associations such as BEUC, ANEC, European Digital SME Alliance, Digital Europe (Association);
- c) National industry associations such as the French Digital Council, the Federation of German Industries;
- d) European Commission bodies and initiatives such as the Joint Research Centre AI Watch;
- e) Standardisation and certification bodies;
- f) Social partners and organisations (trade unions, NGOs, consumer organisations etc.).

The Partners other than the Union will report specifically on their collaboration with other European Partnerships and initiatives in their annual reporting.

5.5 Fulfilment of commitments

The Partners other than the Union undertake to put in place measures that ensure that the contributions agreed are provided in full, and on time.

The Partnership Board may monitor, throughout the life of the Co-programmed European Partnership, the contributions reported by the Partners.

If the contribution by the Partners other than the Union is significantly lower than the overall estimation agreed in the Annual Additional Activities Plan, the Partnership Board may make recommendations to the Partners other than the Union on adjustment measures.

If the action taken is not sufficient to reach the contribution originally agreed, the Partnership Board may recommend the European Commission to adjust its own contribution to match the contribution *de facto* made by the Partners other than the Union.

6 Monitoring and reporting

The activities of the Co-programmed European Partnership will be subject to continuous monitoring and periodic reporting in accordance with Article 50, Annex III and Annex V of Horizon Europe. The outcomes of monitoring and reporting will feed into the evaluations of the Co-Programmed European Partnerships as part of Horizon Europe evaluations. It will feed into the biennial monitoring of the European Partnerships in the context of the Strategic Coordinating Process.

The continuous monitoring and periodic reporting by the Partners will be carried out at least annually for the duration of the Memorandum of Understanding. There will be a simplified reporting over one year and a full reporting every second year¹⁹.

The full reporting, every second year, should cover all points listed below (a-e). The simplified reporting, every one year, should focus on elements where data can be extracted from the Commission or other databases, for points a to c.

The periodic reporting from Partners other than the Union will include:

- a) The progress of the Co-programmed European Partnership towards its objectives (based on the Key Performance Indicators (KPI)) and the expected scientific, economic and societal impacts (following the Horizon Europe Key Impact Pathways). This reporting should also contain a qualitative assessment of the KPI for the past year.
- b) Information on the functioning of the Co-programmed European Partnership, including on openness, transparency, collaboration and synergies with other European Partnerships and initiatives, etc. in line with the implementation criteria for European Partnerships.
- c) Agreed and actually provided contributions.
- d) Investments in operational activities undertaken by the Partners other than the Union, and leverage including additional public and private investment mobilised to exploit or scale-up partnership results.
- e) Structured and representative “impact case studies”²⁰ that will be used to highlight lessons learned from specific projects/activities, their drivers and barriers to impact, and their possible follow-up with the appropriate instruments, including other forms of support outside the Co-programmed European Partnership, such as training and skills development.

The monitoring and reporting will be done on the basis of evidence provided by Partners, respecting confidentiality of information and avoiding anti-competitive behaviour. To the extent possible, Partners will provide monitoring data in close to real-time following Horizon Europe, in particular management and implementation data. To the extent possible, the indicators and methodologies used to monitor the progress of the Partnership towards its objectives and scientific, economic and societal impacts should be harmonised and aligned with the monitoring framework of Horizon Europe (Key Impact Pathways), and the monitoring criteria of European Partnerships.

With due regard to their respective competencies, institutional settings and operational frameworks, the Partners may regularly inform and consult each other on the results of the monitoring, including to assess the contributions of the In-kind Additional Activities and Investments in operational activities undertaken by the Partners other than the Union.

²⁰ i.e. high potential project outcomes that can be fast-tracked towards further investment and rapid development.

The monitoring and reporting should allow for an assessment over time of their results and progress towards impacts, their visibility and positioning in the international context, and potential needs for adjustment measures.

Upon request, the Partners other than the Union engage to provide the European Commission with additional necessary information for the assessment of the achievements of the Co-programmed European Partnership in the context of the overall Horizon Europe evaluation, respecting confidentiality of information, and in the context of the Strategic Coordinating Process for European Partnerships (e.g. input to the biennial monitoring of the European Partnerships).

6.1 General systems

The Partners undertake to set up and implement an effective reporting and monitoring system that allows the Co-programmed European Partnership as well as the European Commission to track progress over time towards the stated objectives and impacts, as well as to provide implementation and management data.

The information provided should include, among others:

- a) Detailed information on the calls for proposals in the Horizon Europe Work Programme, the proposals received, the grants resulting from these calls, the beneficiaries and participants, the results achieved by individual projects and their overall progress towards impact, or any other information deemed necessary for developing, implementing, monitoring and evaluating Union policies or programmes. Such access to information is limited to non-commercial and non-competitive use and will comply with applicable confidentiality rules. The primary means of collecting information will be through European Commission's reporting systems for management of the Horizon Europe programme.;
- b) Activities and fulfilment of contributions by the Partners other than the Union, progress towards objectives, deliverables and KPIs, visibility and positioning in the international context, the results, impacts and leverage. The primary means of collecting information will be through annual and biennial²¹ reporting by the Partners other than the Union and through European Commission's reporting systems for management of the Horizon Europe programme. Information collection will be based on a common methodology specified by the Commission services in consultation with the Partners other than the Union.

²¹ i.e. once every two years.

6.2 Reporting method for In-Kind Contributions to Additional Activities and Leverage

There are three categories related to contributions and activities that Partners other than the Union will be reporting on:

- a) In-kind contributions to the Actions funded by the Union²². At the level of the projects, reporting will be done continuously through European Commission's reporting systems for management of the Horizon Europe programme;
- b) In-kind contributions to the additional activities, foreseen in the Additional Activities Plan. At the level of the partnership, reporting will be done annually by the Partners other than the Union and continuously through European Commission's reporting systems for management of the Horizon Europe programme²³;
- c) Investments in operational activities foreseen beyond the SRIDA, and leverage including other investment mobilised to exploit or scale-up partnership results. At the level of the partnership, reporting will be done biennially²⁴ by the Partners other than the Union and continuously through European Commission's reporting systems for management of the Horizon Europe programme²⁵.

The value of the in-kind contributions reported by the Partners other than the Union will be calculated on the basis of a common methodology in line with Annex V of Horizon Europe. The Partners may keep an anonymised record of these contributions from its constituent entities, which provides the basis for periodic reporting of the total value by the Partners other than the Union of in-kind contributions to the partnership's activities.

6.3 Key Performance Indicators (KPIs)

The following Key Performance Indicators are defined for the Co-programmed European Partnership and will be included in monitoring and reporting.

Operational Objective Targets for KPIs over the Partnership:

Operational Objective	Measured Impact	Short Term 2 Years	Medium Term 5 Years	Long Term 8 Years
<i>a) Accelerate uptake of</i>	Number of projects and sectors with	At least 10% of projects with close	Approx. 25% of projects with	Approx. 40% of projects with close

²² Contributions from beneficiaries that are not members or affiliates of the partners other than the Union cannot be considered as a contribution from partners but these will be considered as part of quantitative leverage effect.

²³ For example, project reporting will include fields about 'Further investment mobilised to exploit or scale-up project' that could be used for the partnership-level reporting.

²⁴ i.e. once every two years.

²⁵ For example, project reporting will include fields about 'Further investment mobilised to exploit or scale-up project' that could be used for the partnership-level reporting.

<i>industry in all sectors</i>	experimentation in close to market environments (high TRLs and experimented in real-life environments) that foster scaling up	to market experiments	close to market experiments	to market experiments
	The calculated level of European private leverage investments	Reported growth per monitoring cycle		
	Report the evolution of macro-economic indicators (market share of the European Union in global AI, Big Data and Robotics Market, number of companies, revenues and professionals) related to the Partnership	Report actual status	Report actual status	Report actual status
<i>b) Lead and support excellent research raising the state-of-the-art</i>	<p>Number of projects with one or more publications</p> <p>Number of peer reviewed publications produced by the Partnership</p> <p>Share of publications produced by the Partnership in journals within the upper 25% based on Filed-weighted Citation index</p>	50% of projects with one or more publications	50% of projects with one or more publications Target is to have approx.10% of project members should have a H-Level above average of the field of expertise	50% of projects with one or more publications Target is to have approx. 10% of project members should have a H-Level above average in the field of expertise
<i>c) Support initiatives addressing Use Cases in AI, Data and Robotics</i>	<p>Number of peer reviewed papers with co-authoring from industry and RTOs</p> <p>Number and share of peer reviewed publications from projects that are core contributions to scientific field with co-authoring from industry and RTOs.</p>	20% of the co-authored papers should be peer reviewed	30% of the co-authored papers should be peer reviewed	40% of the co-authored papers should be peer reviewed
	<p>Number and type of organizations participating in activities organized by the Partnerships</p> <p>Number of member states and regions represented in activities organized by the Partnerships</p> <p>Number of sectors represented in activities organized by the Partnerships</p>	Number and type of organizations: 300 (½ Industry ½ Academia, approx. 25% SME)	Increase in 20%	Increase in additional 20%
<i>d) Promote collaborative working with other horizontal and vertical communities and partnerships</i>	Engagement with other relevant initiatives at European level and worldwide needed to maximise the impact of the partnerships (other partnerships, verticals, DIHs, TEFs, Communities of Start-ups, Regional, National initiatives, Non-	Number of projects and actions engagement with other relevant initiatives at European level and worldwide needed to maximise impact of the PPP (other PPPs, verticals,	Increase number of projects and actions in engagements by 25% Number of verticals engaged in	Increase number of projects and actions in engagements by additional 25% Number of verticals engaged in collaborations should cover 60% of verticals

	<p>European organisations, Standardisation Bodies, Investors etc) will be measured as follows:</p> <p>The number of new formal collaborations established.</p> <p>The number of verticals engaged in collaborations.</p> <p>The number of other partnerships (tackling AI, Data or Robotics) engaged with impact</p> <p>Alignment in SRI(D)As with other partnerships (measured as common topics common topics in WPs,.)</p> <p>The number of existing worldwide initiatives collaborating with the Partnership (Standards, OCDE, UN,..)</p> <p>Impact assessment of the number and nature of activities performed through the collaborations.</p>	<p>DIHs, TEFs, Communities of Start-ups, Regional, National initiatives, Non-European organisations, Standardisation Bodies, Investors, etc.)</p>	<p>collaborations</p> <p>Impact assessment of the number and nature of the activities performed through the collaborations</p>	<p>categories (top level) from the International Standard Industrial Classification (ISIC)</p>
	<p>Number of projects and actions to align academia/research with industry</p> <p>Number of established Industry-Academia collaboration</p>	<p>Number of projects and actions to align academia with industry and researchers with end users</p>	<p>Increase by 25%</p>	<p>Increase by additional 50%</p>
<p><i>e) Develop and implement mechanisms to create an effective & accessible ecosystem (incl. innovation infrastructure</i></p>	<p>Number of regions (NUTS-2) involved in projects and actions</p> <p>% of European regions engaged in collaborations with impact</p>	<p>Cover approx. 20% of European regions</p>	<p>Cover approx. 30% of European regions</p>	<p>Cover approx. 40% of European regions</p>
	<p>Number of actions and projects involving research teams from different AI, Data and Robotics disciplines</p>	<p>At least 25% of the actions and projects including AI, Data and Robotics disciplines</p>	<p>At least 40% of the actions and projects including AI, Data and Robotics disciplines</p>	<p>Above 50% of the actions and projects including AI, Data and Robotics disciplines</p>
<p><i>f) Support initiatives that engage and stimulate SMEs and Start-ups</i></p>	<p>Number of projects and actions to engage SMEs, entrepreneurs, start-ups.</p> <p>Number of Member States where SMEs/Start-ups originate</p>	<p>Report actual status</p>	<p>Increase by 15%</p>	<p>Increase by add. 15%</p>
<p><i>g) Work towards aligning legal frameworks, standards &</i></p>	<p>Number of projects and actions setting up a path to influence and support standardisation</p>	<p>Approx. 5% of the projects should provide input to international standardization</p>	<p>Approx. 15% of the projects should provide input to international</p>	<p>Approx. 25% of the projects should provide input to international standardization</p>

<i>regulation</i>			standardization	
	Number of projects and actions setting up a path to influence and support regulation and certification	Approx. 5% of the projects should provide input to regulation and certification	Approx. 15% of the projects should provide input to regulation and certification	Approx. 25% of the projects should provide input to regulation and certification
<i>h) Support initiatives that foster AI Skill building</i>	Number of projects and specific actions to increase the capacity of AI, Data and Robotics training to support all educational levels and to increase the supply of talent.	All training courses should be listed	Increase by 15% the amount of training courses	Increase by add. 10% the amount of training courses
	Number of projects and actions contributing to the creation of new job-profiles Number of new job-profiles arising from the Partnership	Monitor, identify and report new job profiles		
<i>i) Address socio-economic challenges, Missions and strengthen societal awareness</i>	Number of projects and actions to engage citizens in AI, Data and Robotics, participants and European outreach. Number of citizens that have been reached by projects and actions Qualitative indicator of public acceptance derived from European-wide surveys	At least 5% of the actions and projects to engage citizens	At least 15% of the actions and projects to engage citizens	At least 25% of the actions and projects to engage citizens
	Number of actions and projects targeting societal impact. Number of innovations with societal impact. Number of large-scale experiments supporting the transformation of economic sectors or/and with relevant impact in society Number of actions and projects targeting environmental impact and showing engagement with the European Green Deal Number of innovations with environmental impact.	List and define: - A) actions and projects targeting societal impact - B) number of innovations with societal impact - C) Number of large-scale experiments supporting the transformation of economic sectors or/and with relevant impact in society - D) Number of actions and projects targeting environmental impact and showing engagement with the European Green Deal - E) Number of innovations with environmental	Increase by A +10% B +10% C +10% D +15% E +15% F +10%	Increase by additional A +10% B +10% C +10% D +30% E +30% F +10%

		impact. - F) Number of innovations helping to fight covid-19 and address missions		
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The following represents an indicative range of KPIs to be used within the Partnership. It is expected that these will overlap with the mandated KPIs so an exclusive sub-selection of the Partnership KPIs listed here will be made as part of the monitoring framework agreement and set out in a revised SRIDA.

Pathway Key related to Annex V:

Te	Technological
Ec	Economic
So	Societal
Sc	Scientific

1. KPIs related to the General Objectives

Objective	Pathway	KPI
Secure European's sovereignty over AI, Data and Robotics technologies and knowhow (position and control perspective dimension)	Te	Quantitative assessment of the rate of technology transfer from research through the creation of spin-outs and new SMEs. Aggregate indicators of investment in AI, Data and Robotics technologies by European companies Qualitative indicators of public service uptake of AI, Data and Robotics.
Establish European leadership in AI, Data and Robotics technologies with high socio-economic impact (technology and innovation dimension)	So	Qualitative assessment of talent retention in Europe. Quantitative assessment of the AI, Data and Robotics related patent filings by European organisations The percentage of European based publications in key international journals and conferences related to AI, Data and Robotics.
Reinforce a strong and global competitive position of Europe in AI, Data and Robotics (market dimension)	Ec	The performance of European SMEs and start-ups in global AI, Data and Robotics investment metrics. The growth trend for AI, Data and Robotics markets in Europe

		Combined ranking of European AI, Data and Robotics Member States against global competitors
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2. KPIs related to the Specific Objectives

Objective	Pathway	KPI
Strengthen scientific capabilities in human-centred / trustworthy AI, Data and Robotics	Sc	Quantitative assessment of the use of trustworthiness and human centred related terminology in scientific papers in AI, Data and Robotics
Master essential technologies in human-centred / trustworthy AI, Data and Robotics	Te	Qualitative indicators of the trustworthiness of AI, Data and Robotics (research, business and public).
Maximise the economic benefit of AI, Data and Robotics in all sectors and regions in Europe	Ec	Indicators of the spread of AI, Data and Robotics knowledge and uptake across European Regions
Accelerate and scale-up new markets and novel applications of AI, Data and Robotics	Ec	Qualitative measures of the uptake of AI, Data and Robotics in end use organisations.
Maximise the societal and environmental benefits of AI, Data and Robotics	So	Qualitative assessment of awareness of the environmental and societal benefits of AI, Data and Robotics.
Make the benefits of AI, Data and Robotics accessible to everyone everywhere	So	Level of everyday media coverage in Europe of AI, Data and Robotics topics and issues.
Build a strong and effective European AI, Data and Robotics innovation ecosystem	Te	Qualitative perception among research and innovation communities of the effectiveness and accessibility of the European AI, Data and Robotics innovation eco-system.

3. KPIs related to the Operational Objectives

Objective	Pathway	KPI
Accelerate uptake by industry in all sectors	Ec	<p>Number of projects and sectors with experimentation in close to market environments (high TRLs and experimented in real-life environments).</p> <p>The estimated level of private investments in AI, Data and Robotics</p> <p>Quantitative assessment of macro-economic indicators related to AI, Data and Robotics.</p>

<p>Lead and support excellent research raising the state-of-the-art around AI, Data and Robotics</p>	<p>Sc</p>	<p>Quantitative assessment of projects with one or more publications</p> <p>Quantitative assessment of peer reviewed publications produced by funded actions related to the Partnership.</p> <p>Quantitative assessment of share of publications produced by the Partnership in journals within the upper 25% based on Filed-weighted Citation index</p>
<p>Support initiatives addressing Use Cases in AI, Data and Robotics.</p>	<p>Te</p>	<p>Quantitative assessment of peer reviewed papers with co-authoring from industry and RTOs</p> <p>Quantitative assessment of peer reviewed publications from projects that are core contributions to scientific field with co-authoring from industry and RTOs.</p> <p>Quantitative assessment of organisations participating in activities organised by the Partnerships</p> <p>Quantitative assessment of member states and regions represented in activities organised by the Partnerships</p> <p>Quantitative assessment of sectors represented in activities organised by the Partnerships</p>
<p>Promote collaborative working with other horizontal and vertical communities and Partnerships</p>	<p>Te</p>	<p>The number of new formal collaborations established by the Partnership.</p> <p>Qualitative assessment of sector engagement in collaborations within the actions of the Partnership.</p> <p>The number of other partnerships engaged with impact</p> <p>Qualitative assessment of the active alignment of topics with other partnerships.</p> <p>Qualitative assessment of initiatives collaborating with the Partnership (Standards, OCDE, UN,..)</p> <p>Number of projects and actions that align academia/research with industry</p> <p>Qualitative assessment of Industry-Academia collaborations established within the actions of the Partnership</p>

Develop and implement mechanisms to create an effective & accessible ecosystem (incl. innovation infrastructure).	Sc	<p>Quantitative assessment of regions (NUTS-2) involved in projects and actions</p> <p>Quantitative assessment of European regions engaged in collaborations with impact</p> <p>Quantitative assessment of actions and projects involving research teams from different AI, Data and Robotics disciplines</p>
Support initiatives that engage and stimulate SMEs and Start-ups.	Ec	<p>Quantitative assessment of projects and actions to engage SMEs, entrepreneurs, start-ups.</p> <p>Quantitative assessment of SMEs/Start-ups created through Partnership actions.</p>
Work towards aligning legal frameworks, standards & regulation	So	<p>Number of projects and actions related to or influencing standardisation activities.</p> <p>Number of projects and actions related to or influencing regulation and certification activities.</p>
Support initiatives that foster AI Skill building	So	<p>Quantitative assessment of projects and specific actions to increase the capacity of AI, Data and Robotics training, at all educational levels, and to increase the supply of talent.</p> <p>Quantitative assessment of projects and actions contributing to the creation of new job-profiles</p> <p>Number of new job-profiles arising from the Partnership actions.</p>
Address socio-economic challenges, Missions and strengthen societal awareness	So	<p>Number of projects and actions to engage citizens in AI, Data and Robotics, participants and European outreach.</p> <p>Number of citizens that have been reached by projects and actions</p> <p>Qualitative indicator of public acceptance derived from European-wide surveys</p> <p>Quantitative assessment of actions and projects targeting societal impact.</p> <p>Quantitative assessment of large-scale experiments supporting the transformation of economic sectors or/and with relevant impact in society</p> <p>Quantitative assessment of actions and projects targeting environmental impact and showing engagement with the European Green Deal</p>

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4. *KPIs related to Management and Implementation Data*

<i>Data</i>	<i>KPI</i>
Membership of the Private side Association	Quantitative data on membership of the private side of the Partnership.
Data on the Funded Actions	Quantitative assessment of the Partnership actions and activities.
Records of the decision making bodies of the Partnership	Records of meetings and attendance.

The SRIDA sets out further details, as appropriate, on the monitoring framework for the Co-programmed European Partnership.

7 Application of this Memorandum of Understanding

Any issues related to the interpretation and implementation of this Memorandum of Understanding may be decided upon in consultation by the Partners in the Partnership Board. In case of ultimate disagreement, any of the Partners may request an early end of the Memorandum of Understanding.

Adaptations to this Memorandum of Understanding may be requested by any of the Partners by registered letter.

8 Duration and Review

The starting date for the Partnership is *[insert date of signature]* and its end date is 31.12.2030. The last calls for proposals can be launched up until 31.12.2027, so the last three years of the partnership should be used to conclude remaining activities.

Any of the Partners may communicate by a registered letter at any time the motivated intention to end this Memorandum of Understanding. In the absence of renewal, appropriate measures may be taken to ensure phasing-out of Framework Programme funding according to the conditions and timeline agreed with the Partners ex-ante, without prejudice to possible continued transnational funding by national or other Union programmes, and without prejudice to private investment and on-going projects. This phasing-out plan may be prepared by the Partnership Board before the interim evaluation of Horizon Europe.

The periodic monitoring and reporting will inform the interim and final evaluations of Horizon Europe evaluations referred to in Article 52 of Horizon Europe. The evaluations will be taken into consideration in the phasing out or possible renewal of the partnership.

On the basis of these reviews and the evaluations, any of the Partners may propose adaptations to this Memorandum of Understanding, or decide for it to be ended.

Done in duplicate at ... on XX.XX.202X,

FOR THE EUROPEAN COMMISSION	FOR ADRA ASBL