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Produktion2030

Efficient value chains for manufacturing industry - through the use of digital technology

A call for proposals under the Strategic Innovation Programme Produktion2030, call 12, Stage 1: Initiation.


Produktion2030 is a part of the joint investment of **Vinnova, the Swedish Energy Agency and Formas** in strategic innovation programmes. The aim of the initiative is to create Swedish conditions for international competitiveness and sustainable solutions to global societal challenges.

For more information about the programme, please see <https://produktion2030.se/>



With support from

VINNOVA
Sweden's Innovation Agency

 **Swedish Energy Agency**

FORMAS 

Strategic
innovation
programmes

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Revision history

Date	Change
01/03/2019	Chapter 1, 4, 6:... Stage 2... 40 SEK 5 to 50 million. Chapter 1:... Small and medium-sized enterprises <i>in value chains</i> ... Chapter 4.1: <i>It is important to be able to demonstrate that the partners are part of common value chains.</i>
09/04/2019	Chapter 1: Step 1 must-consortia and Step 2 should-consortia. Chapter 7: The project consortium in step 1 must include...

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1 The offer

Produktion2030 invites actors in industry, universities, and research institutes to apply for funding in our twelfth call.

The purpose of the call is to contribute to boosting the competitiveness of the manufacturing industry in Sweden by improving the efficiency of value chains in industry. This will be achieved primarily by using digital technology. In this case, value chains are seen as a number of value-adding activities required to manufacture a product. A complete value chain consists of all the stages that gradually refine raw materials and components into one final product, i.e. a finished item that can be sold to a customer¹. Digital technology can be used in all or parts of a value chain. This may include digital models and communication channels such as drawings, material data, logistic data and financial information.

The goal of developing and implementing digital technology is to create faster, more efficient, and increasingly flexible production of products. Also, more efficient management and data-sharing, to reduce the cost of the product over the entire lifecycle. Projects must focus on one or several of the areas of strength of Produktion2030 (Chapter 4).

A two-stage call

The call offers funding in two stages: 1) Initiation and 2) Demonstration.

Only projects that have received funding in Stage 1 can compete for funding in Stage 2.

Stage 1: Initiation

In Stage 1, you develop your ideas about making value chains more efficient through the use of digital technologies. The problem is identified and the desired results of a successful project are described. In Stage 1, you should ensure that the project involves suitable partners and that a project plan is developed for Stage 2. Projects in stage 1 must include at least three partners from industry, especially small and medium-sized enterprises in value chains, and at least two partners from universities, and institutes.

The maximum duration of the project is 6 months and the project consortium can apply for a maximum of SEK 500,000, representing a maximum of 70 percent of the total budget for the project. In Stage 1, universities, institutes and small and medium-sized enterprises are eligible to receive funding.

The total call budget for Stage 1 is SEK 10 million.

¹ Please see Wikipedia: <https://bit.ly/2RHjWKM>

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Stage 2: Demonstration (Note! This information is preliminary)

In Stage 2 innovative solutions to make value chains more efficient through the use of digital technologies are developed, tested and demonstrated. In step 2, the project consortia should be expanded with further partners that can contribute to the project.

The maximum time for a project is three years. Projects in Stage 2 can apply for a maximum of SEK 20 million, representing 40 percent of the total budget for the project. At Stage 2, we recommend a project size between SEK 5 to 50 million. Project results must show major benefits to the industrial partners that should be disseminated and demonstrated to companies outside the consortium. Universities, institutes and small and medium-sized enterprises are eligible for funding in this call.

The total call budget for Stage 2 is SEK 50 million and only projects that have received funding in Stage 1 can compete for funding in Stage 2

Timetable:

Please note that the dates are preliminary. Updated information is available at <https://www.vinnova.se/e/strategiska-innovationsprogrammet-for-produktion-2030/effektiva-vardekedjor>

Stage 1: Initiation

Opening date	14 February 2019
Deadline for applications	24 April 2019, at 2 pm
Deadline for decision	23 May 2019
Earliest starting date of project	28 May 2019
Latest starting date of project	5 June 2019

Stage 2: Demonstration

Preliminary opening date	1 September 2019
Preliminary application deadline Stage 2	28 November 2019
Preliminary project start Stage 2	14 February 2020

Expected long-term effects

- Improved efficiency in value chains in the manufacturing industry in Sweden through the development and implementation of digitalisation.
- Increased participation by suppliers operating in Sweden in global value chains, on international platforms and digital markets, especially small and medium-sized enterprises.
- Impact on the global sustainability goals in Agenda 2030². The application should clearly identify effects that are linked to sustainability goals. One

² <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

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example is objective SDG No. 9: “Resilient infrastructure, inclusive and sustainable industrialisation and innovation”.

Contact persons regarding the background, purpose and effects of the call:

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Contact persons regarding the assessment process, legal issues and other questions about the content of the call:

Anna Delin, Call Manager at Vinnova, Phone: 08-473 30 79
anna.delin@vinnova.se

Tero Stjernstoft, Administrator at Vinnova, Phone: 08-473 32 96
tero.stjernstoft@vinnova.se

Administrative issues:

Bengt Larsson, Vinnova, Phone: 08-473 31 14
bengt.larsson@vinnova.se

Vinnova's IT support and the eServices Portal:

Technical questions on your application in the Portal, Phone: 08-473 32 99
helpdesk@vinnova.se

Up-to-date information about the offer and a link to our Stakeholder Portal is available at www.vinnova.se

2 What does Produktion2030 seek to achieve with the call?

The purpose of the call is to contribute to boosting competitiveness of the manufacturing industry in Sweden, by improving the efficiency of value- and supply-chains in industry. The call focuses rapid increase of digitalisation to improve the efficiency of value chains. This may target existing value-chains or evolution of new value chains that is made possible by increased digitalisation.

The call should stimulate broad collaboration between actors in industry, universities, and research institutes, with the aim of creating new knowledge and developing new digital technology or service solutions that address the title of the call. Projects should focus on one or several of the areas of strength of Produktion2030 and clearly contribute to the global sustainability goals (see Chapter 4). Examples of effects on sustainability parameters should be clearly stated in the application.

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2.1 Background

Sweden is one of the most competitive export countries in the world³. Rapid, industrial digitalisation is now changing the prospects for companies active in Sweden to compete on global and digitalised market platforms. Two examples are the operations of Amazon and Alibaba, which enable trade within and between supply chains, both regionally and globally. In Europe, similar trading platforms are emerging and the EU is drawing up guidelines for this development within the European Commission initiative the Digital Single Market⁴.

An important prerequisite for maintaining business competitiveness is the ability and competence to participate in the increasingly digitalised supply and value chains that are emerging. Through a transition to digitalised value chains, efficiency, flexibility and profitability will increase. Digitalised value chains also enable transparency, which simplifies production planning and purchasing. McKinsey Global Institute describes this in more detail in the report “Globalization in Transition: The Future of trade and value chains”⁵

Digitalised value chains contribute to efficiency in internal and external logistics. In the vision regarding the digital factory in Industry 4.0, all systems communicate quickly and securely, both within companies and between companies in digital value chains. The manufacturing industry in Sweden faces major challenges in its ambition to improve efficiency and competitiveness by taking advantage of the possibilities of digitalisation, connectivity and new game rules at global market places.

Companies that have started a digitalisation process may find themselves in a situation where large volumes of data cannot be fully used. Other challenges include interoperability between business systems of different companies. Increased digitalisation also requires digital security. This is especially true when several companies in a value chain must share data between each other, which of them owns the data? Should data be transferred to a third party, such as an external consultant? These issues are widespread in industry, and project proposals should therefore consider issues such as cybersecurity and data privacy.

³ Schwab, K (2018) The Global Competitiveness Report, World Economic Forum.

⁴ <https://ec.europa.eu/digital-single-market/en/policies/shaping-digital-single-market>

⁵ <https://www.mckinsey.com/featured-insights/innovation-and-growth/globalization-in-transition-the-future-of-trade-and-value-chains>

2.2 Purpose of the call

The purpose of this call is to contribute to

- improve efficiency and competitiveness in the manufacturing industry in Sweden, through digitalisation of industrial value chains.
- increase Swedish suppliers' participation in global value chains
- increase Swedish suppliers' participation on international platforms and digital markets
- projects contribute to the sustainable development goals of Agenda 2030⁶. Examples of effects on sustainability parameters should therefore be clearly described in applications.

The call should enable powerful, comprehensive projects including many partners, who together take on new challenges and efficiency opportunities through the digitalisation of larger and longer value chains.

The call's two-stage process allows the partners to form qualified consortia that together can clearly demonstrate workable solutions for typical value and supply chains in supplier networks.

2.3 Gender equality and sustainable development

Produktion2030 and Vinnova work for a gender-equal social development. Gender equality should permeate funded projects both in the design of the project team and the potential of project results to contribute to greater gender equality. Gender equality is a prerequisite for sustainable growth, included in Agenda 2030 as an end in itself but also as an aspect that should permeate work on all goals.

The call should therefore contribute to a gender-equal social development linked to two main aspects. One aspect is that both women and men can, in an equal way, obtain funding, participate in and influence the project. Another important aspect is to analyse and assess whether there are gender issues (gender and/or sex) that are relevant in the problem area and the usefulness of the solution. The project should consider diversity in relation to gender, age and position.

3 Who is this call for proposals aimed at?

The projects funded in this call are carried out by consortia consisting of companies in value chains in manufacturing industries in Sweden, in collaboration with universities and research institutes. The participation of small and medium-sized enterprises (SMEs) is a special priority. Universities, research institutes and SMEs can be beneficiaries of projects in both Stage 1 and Stage 2.

⁶ <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

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4 What do we finance?

4.1 Activities that can be financed

The call offers funding in two stages: 1) Initiation and 2) Demonstration. **Note that only projects that have completed and are approved in Stage 1 can apply for funding for Stage 2.** Stage 2 projects should address complex industrial challenges, requiring many actors and several companies in value chains. We recommend that partners create large projects, in the order of SEK 5 – 50 million.

Stage 1: Initiation

In Stage 1, you develop your ideas about increasing the efficiency of value chains through the use of digital technology. The problem is identified and the desired results of a successful project are described. In Stage 1, you should ensure that the project involves suitable partners and that a project plan is developed for Stage 2. The maximum duration of the project is 6 months and the project consortium can apply for a maximum of SEK 500,000, representing a maximum of 70 percent of the total budget for the project. In Stage 1, universities, institutes and small and medium-sized enterprises are eligible for funding.

Examples of activities in Stage 1:

- Identify challenges facing the consortium companies in relation to making their value chains more efficient through the use of digitalisation. This could involve existing value chains, but also the creation of new value chains that are made possible by increased digitalisation. For example, what values can be created by moving from current technology for transfer of product data, business data, or production data between companies in a value chain?
- Create a consortium for Stage 2 consisting of companies in a real value chain, suppliers of digital services and platforms (business systems and similar), as well as academia and research institutes. Identify expected results, effects and potential for commercialisation of project results.
- Create an application for Stage 2.

Stage 2: Demonstration (Note! This information is preliminary)

At Stage 2 innovative solutions to streamline value chains are developed, tested and demonstrated with the use of digital technology. Here, innovative solutions to streamline and digitise value chains are developed, tested and demonstrated.

Projects should include many partners from industry, especially SMEs, as well as from universities, and institutes. The maximum term of the project is three years. The total budget for projects in Stage 2 can be between SEK 5 and 50 million. Projects can be financed with a maximum of 40% of the total budget. Project results shall have a major impact on the industrial partners and be disseminated and demonstrated to companies outside the consortium.

Universities, institutes and small and medium-sized enterprises are eligible for funding in this call. It is important to be able to demonstrate that the partners are part of common value chains.

In order to support projects that are granted funding in Stage 1, Produktion2030 will organise information meetings/workshops in September-October 2019, to enable applicants to secure the quality of the applications to Stage 2.

4.2 Areas of strength of Produktion2030

Projects funded in this call shall be directed towards one or more of the six areas of strength of Produktion2030. These areas are important and prioritised challenges for the Swedish manufacturing industry (see figure 1)⁷. To meet these challenges, extensive development and implementation within industry of digital solutions is ongoing. Digitalisation in the six areas is an important part of Industry 4.0. All areas of strength affect the sustainability goals of Agenda 2030.

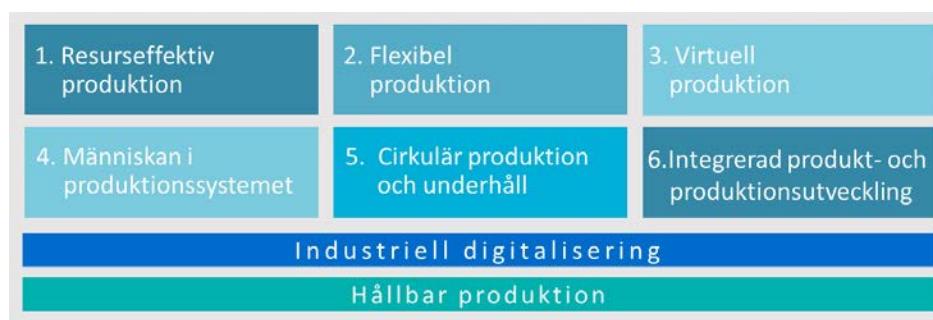


Fig. 1. Produktion2030 focuses on solving the challenges within six areas of strength and two transversal themes. Information on the areas of strength and the challenges is available at www.produktion2030.se

A more detailed description of the challenges facing industry and research in the six areas of strength of Produktion2030 is set out below:

4.2.1 Area of strength 1 – Resource-efficient production

Resource-efficient production is a prerequisite for manufacturing in a country like Sweden, with its high quality levels and material costs. Resources such as materials, energy, capital and time must be used efficiently to make production competitive. High levels of automation for production and methods for optimizing large amounts of data are important for resource efficiency. Research and innovation aimed at resource-efficient production requires a holistic approach and affects all life cycle phases of products and production systems.

⁷ <http://produktion2030.se>

4.2.2 Area of strength 2 – Flexible production

Flexibility is a prerequisite for customised, individualised products and also for single-unit production. Flexible production handles volume changes, many variants, new materials and material combinations as well as new products. This in turn requires new innovative manufacturing methods, automation and robotics as well as new knowledge. Automation, digitalisation, machine learning, artificial intelligence, and advanced simulation provide opportunities for increased flexibility and integration of different systems that are necessary to create a more decentralised control and monitoring of the production processes.

4.2.3 Area of strength 3 – Virtual production

Virtual tools and digital models are a prerequisite for the development of the next generation of complex products and production systems. In tomorrow's value-chains and factories, most production resources, machinery and employees will be connected to the Internet. Data collection, analysis, machine learning, AI as well as rapid communication and automatic management of large data volumes facilitate the creation of “digital twins” of the entire production system. The virtual factory becomes the original and the starting point that gives the company the ability to make the right decisions by optimizing complex data and developing smart production strategies.

4.2.4 Area of strength 4 – Humans in the production system

Human beings have a key role in the digitalised production systems and Industry 4.0. Production requires skilled humans who collaborate with advanced, automated production systems, robots and manufacturing processes. Humans in the industry of the future manage production processes and systems, in virtual and in global networks. Digitalisation, machine learning, AI, sensors and management of large volumes of data create new requirements in relation to personal safety, advanced communication, interfaces and distribution of tasks between humans and technical systems. Advanced technical solutions enable the development of new workstations, working methods, ergonomics and access to information regardless of language.

4.2.5 Area of strength 5 – Circular production systems and maintenance

The life of products and production systems can be radically extended by remanufacturing and/or smarter, more adaptive maintenance of products, machines and systems. Through circular systems, products can be reused and remanufactured in multiple cycles through smart maintenance, machine learning, AI and analysis of large data volumes. A transition towards a circular economy and production requires new services such as “Production capacity as a service”.

4.2.6 Area of strength 6 – Integrated product and production development

Products must create values for all partners in a supply chain. The development of products and production systems must be parallel and integrated among all actors at the same time to create speed and flexibility in the market. To develop

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integration, digital product models and work tools as well as information from all previous stages of the development process are required. With the use of rapid analysis of large volumes of data collected, intelligent decision support, models of new materials, and advanced product and production models, integration of product and production development can greatly increase competitiveness.

5 Eligible costs

Our funding is by way of grants. Funding for organisations that operate economic activities is subject to regulations regarding state aid⁸. These regulations govern which costs and what proportion of these costs may be covered by the grant. Universities, institutes and small and medium-sized enterprises are eligible for funding. The eligible costs are shown in the possible aid intensities for different partners in the project as set out in the Regulation GBER.⁹

6 How much funding can be applied for?

Stage 1: Initiation

For Stage 1, Produktion2030 finances 70% of the total project budget. Project consortia can apply for a maximum of SEK 500,000. Maximum project duration is 6 months. Universities, institutes and SMEs are eligible for funding in this call.

Support level in Stage 1: Project content is categorised as feasibility studies. The following support levels are applicable for small and medium-sized enterprises:

	Maximum number of employees	Maximum turnover	Maximum support level
Small enterprises	50	SEK 100 million	70 per cent
Medium-sized enterprises	51 - 250	SEK 1,000 million	60 per cent

⁸ More information about state aid is available on our website (in Swedish) at: <https://www.vinnova.se/sok-finansiering/regler-for-finansiering/statligt-stod/>. You will also find our general terms and conditions for our funding, as well as a guide to the terms and conditions governing eligible costs: <https://www.vinnova.se/sok-finansiering/regler-for-finansiering/allmanna-villkor/>

⁹ <https://www.vinnova.se/globalassets/dokument/gber-gruppundantagsforordning.pdf>
<https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/dokument/stodnivaer-statligt-stod.pdf>

Stage 2: Demonstration (Note! This information is preliminary)

Only projects that received funding in Stage 1 can apply for funding for Stage 2.

At Stage 2 innovative solutions to streamline value chains are developed, tested and demonstrated with the use of digital technology. Projects should include several partners from the industry: companies that are part of the same value chain. Since many supply chains include small and medium-sized enterprises, we would like to see these represented in the project consortium. Universities, and institutes should also be included in the project consortium.

The maximum term of the project is three years. The total budget for projects in Stage 2 is SEK 5 to 50 million. Projects can be financed with a maximum of 40% of the total budget. Together, the industrial project partners in a consortium can receive a maximum of 20 percent of Vinnova's total contribution to the project. Project results shall have a major impact on the industrial partners and be disseminated and demonstrated to companies outside the consortium. Universities, institutes, and small and medium-sized enterprises are eligible for funding in this call.

Aid intensity Stage 2: Demonstration. The project content is classified as experimental development. Therefore, the following aid intensities apply to each individual enterprise.

	Maximum number of employees	Maximum turnover	Maximum support level
Small enterprises	50	SEK 100 million	60 per cent
Medium-sized enterprises	51 - 250	SEK 1,000 million	50 per cent

7 Assessment requirements

We will only assess applications that meet the following requirements:

- The project must not have commenced before the application is submitted.
- The project consortium in step 1 must include *at least three enterprises, at least two research partners (universities, and/or research institutes)*
- The project partners must be legal entities.
- Project term for Stage 1: 5 June – 5 December 2019.
- The application must be complete according to the instructions in Chapter 9
- Project costs that are not eligible must be identified in the project description. They may be significant in relation to the assessment.
- A project summary of the application should be emailed to the Programme Office for Produktion2030 at cecilia.warrol@Produktion2030.se.

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If the above requirements are NOT met, the application will not be assessed but will be rejected on formal grounds, without further justification. Once the application deadline has passed, applications may only be supplemented at Vinnova's request.

Please note that all applications will be assessed by international experts. Therefore, it is recommended that the applications be written in English. Applications written in Swedish will be translated into English by Vinnova. We cannot guarantee that the translation will be fully consistent with the applicant's formulations and intentions.

8 Assessment of applications

8.1 Assessment criteria

Projects should focus on *one or more of the areas of strength of Produktion2030*. The areas of strength covered should be clearly stated in the project application. Applications will be assessed on the basis of three main criteria:

- 1) Potential 2) Actor constellation 3) Feasibility

		Criterion	Description
Potential	1.1	Impact and effect goals	To what extent does the proposed project contribute to the impact and goals of the call and of Produktion2030? <ul style="list-style-type: none"> - Improved efficiency in value chains in the manufacturing industry in Sweden via digitalisation - Increased participation by suppliers operating in Sweden in global value chains, on international platforms and digital markets (especially small and medium-sized enterprises). - Impact on the global sustainability goals in Agenda 2030. The application should clearly identify effects linked to the (UN SDG) sustainability goals. E.g. SDG 9: Sustainable industry, innovation and infrastructure.
	1.2	State-of-the-art	How well is the industrial and scientific state-of-the-art in the selected area described?
	1.3	Areas of strength	How well does the project focus on one or several of the six areas of strength of Produktion2030?
Partners	2.1	Project Consortium	How well does the project consortium's overall competence, project management, roles and specified resource requirements match the goals of the project?
	2.2	Collaboration	How well does the project proposal show how collaboration between industry, academia and research institutes will be achieved? How well does it show that all partners participate on equal terms and with equal involvement?
	2.3	Diversity	How well is the team composed with respect to gender distribution and balance of power and influence between men and women?
Feasibility	3.1	Risk analysis	How well are project risks identified and risk management activities described?
	3.2	Level of innovation ¹⁰	How well described is the feasibility of the project; the innovation level of the project results beyond state-of-the-art; and the project's value for Swedish industry?
	3.3	Dissemination	How well does the project proposal describe how the project will achieve wide dissemination to partners within as well as outside the project consortium?

¹⁰ <https://www.oecd.org/site/innovationstrategy/defininginnovation.htm>

8.2 What is the assessment process?

The applications received in both Stage 1 and Stage 2 are assessed by international experts appointed by Vinnova. Therefore, it is recommended that the applications be written in English. *If the application is written in Swedish, Vinnova will ensure that they are translated. There is a risk that the translation may not do the application justice.*

- Stage 1 is an open call.
- Only projects that have completed Stage 1 can apply for funding in Stage 2.
- Project proposals compete for funding in the call budget.

9 Decisions and conditions

9.1 Vinnova's decisions

The total amount of funding for each party in the project will be stated in the decision. Funding will be granted on the basis of the above criteria. The aid base is set out in the decision and also governs the eligibility of costs.

Vinnova's decision to grant funding or to reject an application cannot be appealed.

9.2 Conditions for received funding

Our general terms and conditions for grants apply to grants awarded.¹¹ The terms and conditions include regulations on project agreements, conditions for payment, follow-up, reporting and use of the results.

Since the call is made within the framework of strategic innovation programmes, the following special conditions apply as well:

- The project shall be represented by at least one project partner at conferences and other activities organised under the strategic innovation programme Produktion2030.
- Produktion2030 will conduct information meetings/workshops in September-October 2019, to enable the partners to safeguard quality in Stage 2 projects. The workshops also aim to optimise synergies in the consortia. The workshops will be carried out on several occasions, location in Sweden pending the outcome of the projects in Stage 1. ***Participation at the workshop(s) of at least one project representative is mandatory for all projects approved in Stage 1.***

¹¹ Up-to-date terms and conditions can be found on our website, along with help to understand and meet the conditions: <https://www.vinnova.se/sok-finansiering/regler-for-finansiering/allmanna-villkor/>

- Information about the project and publications of project results must state that the work was carried out within the strategic innovation programme Produktion2030, a joint effort by Vinnova, Formas and the Swedish Energy Agency. Publication means, for example, the use of publishing, regardless of medium, and oral presentations.
- Research institutes within the RISE group may, when participating in their non-economic activities, add a surcharge for indirect costs under the full cost principle applied by them and approved by Vinnova.
- The project coordinator can be a company, university or research institute.

Supplementary special terms and conditions may be issued for individual projects. If the conditions are not complied with, you may be liable to repay. This also applies if you have received funding incorrectly or received an overpayment.

10 How to apply

To apply, please complete an online form in our Stakeholder Portal, which can be accessed via portal.vinnova.se. You can also upload the following appendices¹²:

Application templates for Stage 1: Initiation

- Public Project Summary (executive summary) – 1 page
- Project description – 5 pages
- CV-Appendix: relevant CVs for the project manager and all key personnel in the project team. – 1 page/CV
- All project applications and appendices must be in PDF format.
- Please write in English
- The coordinator should email the project summary and contact details to the Project Manager at the Programme Office cecilia.warrol@produktion2030.se. The coordinator should also add or update his/her profile at: www.kunskapsformedlingen.se.
- Once the application deadline has passed, applications may only be supplemented at the request of Vinnova.

11 Who can read the application?

Applications submitted to us are classified as public documents. However, we will not disclose any information about an individual's business or operating circumstances, inventions or research results if doing so could harm an individual. Documents sent to the organisation responsible for the strategic innovation programme are not subject to Vinnova's confidentiality rules.

¹² Templates for the appendices can be found on our website:
<https://www.vinnova.se/e/strategiska-innovationsprogrammet-for-produktion-2030/effektiva-vardekedjor/>