

Effect of interventions to support participation in Global Value Chains in Asia and the Pacific: An Evidence and Gap Map

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Background

1.1 The problem, condition, or issue

Value chains

A value chain is the entire range of activities undertaken to bring a product from the initial research and design stage through the input-supply stage, to various phases of processing, to its final market destination, and it includes its disposal after use. For instance, agro-food value chains encompass activities that take place at the farm or rural level, including development of new seed varieties, input supply, and continue through handling, processing, storage, packaging, and distribution. As products move successively through the various stages, transactions take place between multiple chain stakeholders, money changes hands, information is exchanged and value is progressively added.²

Value chain development is a catch-all term for actions intended to build new value chains, support and improve the operations of existing value chains and to bring new actors into an existing value chain. Value chain development can include the introduction of institutional arrangements, such as interlinked contracting, farmer cooperatives, and vertical integration. These value chain innovations can reduce business costs and can permit farmers to implement the technology needed to meet the needs of buyers.

Value chain development is a market-led approach to improving socio-economic outcomes. Value chain development can increase productivity, such as by better harvesting practices, which results in benefits to the poor households in terms of higher income, improved understanding of environmental values and may promote gender equality.³

Value chain development has powered the growth of production low- and middle-income countries notably in sectors such as textiles and clothing, electronics and agriculture.

Investment in value chains could also expand agricultural productivity and welfare of smallholder producers. In various developing countries, VC involvements have allowed farmers to add value to agroforestry products, raised market price, establish regulated mediators and reduced intermediaries' profit margin. At the same time there is the risk from a 'race to the bottom' as labour and environmental standards are compromised in a bid to maintain competitiveness.

Global value chains

A Global Value Chain (GVC) is a network of interlinked stages of production for goods and services that straddle international borders. Typically, a GVC involves combining imported and domestically produced goods and services into products that are then exported for use as intermediates in the subsequent stage of production or as final consumption products.⁶ More than 70% of world trade takes place through global value chains (GVCs), while Asia's GVC participation at about 68%.⁷ Through GVCs, developing countries can provide inputs to the final product through exporting of manufactured goods, aside from unprocessed raw materials. By participating in GVCs, industrial transformation process occurs resulting to economic efficiency and productivity.⁸ The growth of global value chains (GVCs) has resulted in productivity gains from the increased division of labour, and so powered high levels of growth in income and international trade.

Global value chain interventions are intervention by a government or non-governmental agency to facilitate the participation of firms and farms in a GVC. Participation in the GVC is the immediate outcome, which in turn affects enterprise performance and household.⁹

During the COVID-19 pandemic surge, GVCs played a crucial role in the production of personal protective equipment and vaccine component. GVCs have become a new opportunity for developing countries to enter to higher value-added activities in global production systems. ¹⁰ Modernisation promotes economic growth and supportable economic development. The organization of manufacture in the form of GVCs has become subtle as firms in progressive countries have tried to become more supple and decrease their production costs, and have therefore started to organize cross-border links of associates, contractual partners, and arm's-length suppliers.

As a chain that associates production, sales, recycling and other processes, GVC includes numerous value creation activities including design, product development, manufacturing, marketing, after-sales service, and recycling. The GVC literature recognises two different paths through which local producers can improve their competitiveness. The first way, involves local manufacturers growing their own returns by engaging in making improved products, making them more competently, moving from lesser value added product assembly and manufacturing into design and branding functions, or using the skills gained by working in other sector to gain competitive advantage in other sectors. The second way includes paying less wages and poorer working conditions, moving into lower value-added activities, or failing to meet environmental and labour standards to strive against other more well-organized producers in the developing world. Value chain interventions support the former approach and support standards to limit the second approach.

As the Asian region enters GVCs through industrialization, it has contributed to a by-product that has been of greater concern, globally. Asia's contribution to the world's CO₂ emissions from the production side has grown faster than the consumption side, raising an important environmental sustainability concern. With global climate change as one of the most pressing challenge being faced by humanity¹⁴ the pressure is now high to urgently transition to net-zero carbon dioxide emission. Such global pressures call for multinational corporations to set targets to reduce emissions by cutting down their own emissions and making efforts to improve their engagements in their own supply chains to create a cascade of sustainable practices through the supply chain.¹⁵

However, small players and suppliers, mostly coming from emerging and developing countries, often violate these standards discouraging these large companies to engage with them to avoid serious financial, social, and environmental risks. GVC interventions, hence, need to fully take into consideration both the positive and negative impacts of GVCs. ¹⁶

1.2 The intervention

To screen studies to be included and excluded from the review, a standard definition of GVC has been established. That is:

A value chain intervention is an intervention by a government or non-governmental agency to facilitate the participation of firms and farms in a (G)VC. Participation in the (G)VC is the immediate outcome, which in turn affects enterprise performance and household wellbeing.

This definition excludes private sector activities to organize value chains. All value chains are, by their very nature, organized by the private sector. But our interest is in what development agencies, such as ADB, can do to support value chain development. Hence studies of the effects of participating in value chains are not included. Included studies have to have an intervention.

1.3 Attributes of VC interventions

The value chain identifies key elements of value chain development, such as linkages and upgrading. Hence, rather than coding interventions, we have coded what we call the 'attributes' of interventions. As part of the work associated with this map we will identify which intervention activities are associated with these attributes.

The attributes are:

- 1. GVC governance: The system for managing the relationships between different actors in GVCs. It includes policy and regulatory framework, purchase agreements between producers and buyers, public-private-producer partnership, multi-stakeholder platforms, and corporate governance.
- 2. Financial and legal products and services: Examples are financial support to microenterprise, input supplies, and export guarantees.
- 3. Capacity building development: Developing the skills of firms and farms to enhance their role in GVCs. Examples are capacity building at the community level, intermediate NGOs, village leaders. It may also be provided to government officials.
- 4. Direct support to GVC: Examples is constructing storage facilities.
- 5. Linkages: Either horizontal or vertical connections between different actors in GVC. Examples are contract farming, market information systems, linkage to global sourcing partners, vertical linkages in production, processing, and trade functions, linking farmers with large processors, chain linkage programs, linking of small-scale producers with input suppliers and traders, exchanges between GVC players (networking), multistakeholder platforms, institutional marketing arrangements, marketing cooperatives, linkages to higher value chain markets for horticulture products, establishing institutional linkages between farmers' organization.
- 6. Upgrading: Moving to higher value activities. Examples are [technical support] product and process upgrading, certification schemes and standards, regular monitoring and more rigorous incorporation requirements and standards for suppliers, functional upgrading, development and dissemination of improved technology, access to quality inputs and technology, postharvest handling information, technology promotion.

1.4 Outcomes

Value chain interventions aim to achieve the following outcomes:

- 1. Intermediate outcomes: Improve technical knowledge and skills, increased risk-taking behaviour, and use of financial products and services.
- 2. (G)VC outcomes: Increase (G)VC participation, producer share of final product price, and formation of market linkages.
- 3. Firm and farm level outcomes: Employment, productivity, sales, exports, and net income and profits.
- 4. Welfare outcomes: incomes or poverty, non-productive assets including housing, and improve food security (health and nutrition)
- 5. Social and environmental outcomes: labour standards (including child labour) and effects on climate change.

How the intervention might work: theory of change

The productivity gains realised by a division of labour are at the heart of economics, being noted by the classical economists from Adam Smith to Karl Marx. The division of labour depends on trade. Modern economics has recognized that trade is far from frictionless, and can undermined by uncertainty, information asymmetries and changing trade regimes. Integrating production across the various stages can reduce some of these sources of frictions.

Incorporating firms and farms into value chains can enable them to benefit from higher productivity and producing higher value output. The various attributes of value chain interventions do this in different ways:

- Global value chain governance includes legislation, such as trade policy, which can help or hinder cross border VC transactions, as well as regulations which may also help or hinder, and safeguards for labour standards, child labour and environmental protection.
- Upgrading enables firms and farms to acquire and use or adopt relevant technology and standards to participate in VCs. Upgrading may be of products (higher value), process (enhanced efficiency) or function (moving up the value chain e.g. into agro-processing).
- Capacity building supports upgrading by providing the skills required to work with technology and meet standards, and better understand the requirements of VC participation.
- Linkages make connections between firms and farms and other actors in relevant value chains, either horizontally or vertically
- Financial and legal products and services enable farms and firms to participate by providing finance to undertake necessary investments to take part in VC activities and to enter into the contracts across the VC
- Direct support to VCs creates institutions and infrastructure which typically serve an agglomeration function, enabling a group of firms or farms to access markets they could not do so individually

Why it is important to develop the EGM

There are no EGMs on this topic, as far as we are aware. There are many studies on value chains so the lack of an EGM remains a significant gap in evidence on effect of interventions to support participation in Global Value Chains.

Existing EGMs and/or relevant systematic reviews

While there is a plethora of value chain studies and quite a few of systematic reviews on local value chain interventions, they are typically limited in scope. For instance, some systematic reviews only deal with the development of local value chains. (Hainzer et al. 2019).²⁰ Another systematic review (Hermiatin et al. 2022) ²¹ synthesised the evidence on food value chains (FVCs) and regional food hubs (RFHs). There is paucity of literature on systematic reviews which show effect of interventions on participation in global value chain. One such systematic review (Kumar et al. 2018)²² assessed the effectiveness of market-led development approaches among the rural and semi urban population and assessed the factors which determine the success of different market-led development approaches in subsistence and migrant-driven rural economies.

So far there is no EGM on interventions that support GVCs. The EGM will contribute and help to establish the range of development knowledge available on interventions that support GVCs and to characterize ADB's support through its strategies and investments. The EGM will highlight gaps in the evidence base and show where evidence is more abundant.

The overlay of the ADB GVC portfolio will identify overlaps in ongoing support when compared to available evidence.

The results of the EGM will inform future ADB operations by identifying where evidence and gaps exist, and suggestions for ADB targeting of its investments in support for GVCs. It will also feed-in to IED's mid-term review of Strategy 2030.

2. Objectives

This project will produce two EGMs: a map of effectiveness studies and a map of ADB projects, referred to hereinafter as the effectiveness map and the projects map. We will also conduct a 'formative review' which focuses on intervention design.

The specific objectives are as follows:

- (i) to develop a taxonomy of GVC attributes which can be used to map effectiveness studies and ADB projects in this area.
- (ii) to establish a clear definition of the attributes and outcomes related to the effect of attributes to support participation in Global Value Chains.
- (iii) to map studies on the effect of attributes to support participation in Global Value Chains based on primary studies and systematic reviews of such studies.
- (iv) to provide a descriptive overview of attributes, contexts, study designs, and geographical distribution of studies.
- (v) to map ADB projects in the same framework and so examine the extent to which ADB's existing corporate policy, strategies and operational inputs, outputs, and outcomes in support of GVCs are already embedded in the ADB portfolio since the approval of ADB's Strategy 2030 in 2018.
- (vi) to provide a summary review of selected studies in the EGM

3. Methodology

Defining evidence and gap maps

An EGM illustrates the complete existing research literature and evidence on a given subject. It is a systematic presentation of the availability of relevant evidence for a particular policy domain (Saran & White, 2018).²³ Similar to systematic reviews, an EGM subscribes to a prespecified and published protocol, but it only provides a summary of the evidence, not assess the findings from the studies. Hence, EGM covers a wider scope than systematic reviews.

The final output of an EGM is a both as research report and an interactive map plotted as matrix of included studies and their corresponding interventions (attributes in our case) and outcomes. At first sight, one can check the evidence available or lack thereof for one's subject matter. This EGM on the effect of interventions to support participation in the global value

chains includes evidence from experimental and non-experimental intervention studies, case studies, modelling studies and systematic reviews.

EGM Framework

The EGM framework comprises the classification of the attributes and outcomes, and their definitions. It also includes any additional coding, which may be shown as filters on the map.

The framework is shown in Figure 1.

Value chain development activities has various attributes, which are shown in a row across the top of the figure. Under each attribute is a column which elaborates upon the attribute. In some cases the column unpacks the attribute. So financial and legal products are separated into financial support to enterprises, input supplies, export guarantees and contract services. These are examples, the list is not exhaustive. The column under upgrading identifies different types of upgrading (product and process, and functional, as well as examples of activities such as post-harvest handling information and providing access to technology),

These activities lead to the various outcomes on the right-hand side of Figure 1 (also listed in section 1.4 above).

Figure 1 also shows the cross cutting theme of gender focus.

Population and Filters

Population in eligible studies are (i) firms and farms, (ii) government agencies and officials; in Asia and Pacific.

For specific filters of the intervention map, the following groups of interest will be coded:

- (1) Study design which will be coded as experimental, non-experimental, systematic review, modelling, and case study
- (2) Type of value chain: Local value chain, regional value chain and global value chain
- (3) Target group: Farm, firm, private organisation, government, NGO
- (4) Sector: Agriculture, natural resources and rural development, Education, Energy, Finance, Health and social protection, Industry and trade, Manufacturing, Multisector, Public-sector management, Transport and ICT, Water and other urban infrastructure and services
- (5) Country: On ADBs classification of Asia Pacific countries

(6) Gender: Gender focussed (women only intervention), Mention of gender (not gender focussed, but discussion of gender), Not gender focussed



- Research & design
- Production
- Processing
- Distribution and storage
- Sales & marketing
- Waste disposal

Figure 1 The EGM framework

Attributes

Global Value chain governance

Financial and legal products and Capacity building Direct support to GVC

Upgrading

Linkages

1. Policy & regulatory framework 2.Purchase agreements 3. Publicprivateproducer partnershi

5.Corporat

governance

l support enterprise 2.Input supplies 3.Export 4.Multistak eholder platforms

1.Financia

to

1. Capacity buildingcommunity level 2. Capacity building to intermediate NGOs 3.Technical assistance to village leaders 4.Form of media: digital in person

training etc

ment of village nursery agreements

1.Establish 2. Making contractual

1.Product and process upgrading 2.Certificatio n schemes and standards 3.Policy options assisting

SMEs

4.Functional

upgrading 5.Technical support for product processing 6. Developmen t and disseminatio n of improved technology 7.Access to quality inputs and technology 8.Post

harvest

handling

information

9.Technolog

1.Contract farming 2.Strengthening horizontal linkages 3. Strengthening vertical linkages 4.Market information system 5.Linkage to global sourcing partners

6.Vertical

linkages 7.Linking farmers with large processors 8.Chain linkage programmes 9. Value chain development 10.Collaborative networks 11.Exchanges between buyers and sellers 12.Multi stakeholder platforms 13.Institutional marketing

arrangements

Outcomes

Intermediate outcomes

> Value chain outcomes

Firm and farm level outcomes

Welfare outcomes



Social and environmental outcomes







Gender focus:

Gender focussed (women only intervention) Mention of gender (not gender focussed, but discussion of gender) Not gender focussed

For specific filters of the ADB portfolio map, the following groups of interest will be coded:

- (1) Project sources which will be coded as TA, NSO and Loans and Grants
- (2) Operational priorities: Addressing remaining poverties and reducing inequalities, accelerating progress in gender equality, tackling climate change, building climate and disaster resilience and enhancing environmental sustainability, making cities more liveable, promoting rural development and food security, strengthening governance and institutional capacity and fostering regional cooperation and integration
- (3) Sector: ANR: Agricultural production; Agro-industry, marketing, and trade; Agriculture research and application; Agricultural policy, institutional and capacity development

EDU: Technical and vocational education and training; Tertiary; Education sector development

FIN: Small and medium enterprise finance and leasing; Trade finance

ICT: ICT infrastructure; ICT industries and ICT-enabled services; ICT strategy and policy, and capacity development

IND: Large and medium industries; Small and medium enterprise development; Trade and services; Industry and trade sector development

- (4) Target group: Farm, firm, private organisation, government, NGO
- (5) Country and region using ADBs classification of Asia Pacific countries
- (6) Gender: Gender focussed (women only intervention), Mention of gender (not gender focussed, but discussion of gender), Not gender focussed

Intervention

Eligible studies must be studies of an intervention. Studies of global value chain in which there is no intervention will not be included.

We would be including only value chain interventions. Rather than coding for interventions we would be coding for the following "attributes of interventions"

- GVC governance
- Financial and legal products and services (includes making contracts, whereas facilitating them is just linkages)
- Capacity building
- Direct support to GVC (e.g. constructing storage facilities)
- Linkages
- Upgrading

Table 1 lists the categories of attributes and examples of the ways these attributes can be supported by value chain interventions.

Table 1 EGM attributes

Categories of attributes	Examples of attributes
Value chain governance	 Policy and regulatory framework Purchase agreements between producers and buyers Public-private-producer partnership Multi-stakeholder platforms Corporate governance
Financial and in-kind products and services	Financial support to micro enterprisesInput suppliesExport guarantees
Capacity building /capacity development	 Capacity building at the community level Capacity building to intermediate NGOs Technical assistance to village leaders Form of media: digital, in-person training etc.
Direct support to GVC involvement	Establishment of village nursery Making contractual arrangements
Upgrading	 Product and process upgrading Certification schemes and standards Policy options assisting SMEs: regular monitoring and more rigorous incorporation requirements and standards for suppliers Functional upgrading Technical support for product processing

	Development and dissemination of
	improved technology
	Access to quality inputs and
	technology
	Postharvest handling information
	Technology promotion
Linkages	Contract farming
	Strengthening horizontal linkages
	Strengthening vertical linkages
	Market information systems
	 Linkage to global sourcing partners
	 Vertical linkages in production,
	processing and trade functions
	Linking farmers with large processors
	Chain linkage programmes
	Value chain development-linking of
	small-scale producers with input
	suppliers and traders
	Collaborative networks
	Exchanges between buyers and sellers
	e.g., meetings, fairs, and exchanges.
	Multi-stakeholder platforms
	Institutional marketing arrangements
	Marketing cooperatives
	Linkages to higher value chain markets
	for horticulture products
	Establishing institutional linkages
	between farmers' organizations

Outcomes

The map will include outcome categories surrounding intermediate outcomes, value chain outcomes, firm and farm level outcomes, welfare outcomes and social and environmental outcomes. Below are the five outcome domains with their corresponding sub-categories (Table 2).

Table 2. Outcome categories and sub-categories

Outcome Category	Sub Category
Intermediate outcomes	Technical knowledge and skills
	Risk taking behaviour
	Use of financial products and services
Value chain outcomes	GVC participation
	Producer share of final product price
	Formation of market linkages
Firm and farm level outcomes	Employment creation
	Productivity
	• Sales
	• Exports
	Net income and profits
Welfare outcomes	Economic (Household income and
	poverty)
	 Non-productive assets including
	housing
	Health and nutrition (including food
	security)
Social and environmental	Climate change
	• Child labour

Criteria for including and excluding studies

Study design

Study designs include

• Impact evaluations: experimental study designs (randomized controlled trials/natural experiment); non-experimental study designs or quasi-experimental study designs (regression discontinuity, propensity score matching, difference-in-difference,

instrumental variables, and other matching designs with awareness of selection bias are included); Before versus after designs with no comparison group are not included.

- Systematic reviews of impact evaluations
- Case studies and
- Studies using modelling with actual data.

It is important that there is a comparison group or statistical design with untreated observations (i.e., instrumental variables). Comparison groups can be active or passive but the two would not be combined in a single meta-analysis.

Qualitative evidence or study designs including literature reviews, key informant interviews, focus group discussions, and descriptive analyses are excluded.

Geographical scope

Studies included in the EGM are restricted to evaluations on interventions that have been conducted in countries classified by the ADBs list of Asia and Pacific countries.

Status, language and date

For feasibility reasons, the EGM is limited to studies in the English language. There are no restrictions regarding publication status or date of studies, i.e., it includes journal articles and online accessible reports or working papers that are not yet published and are ongoing. Projects are included by Approval Date from July 2018 – December 2021

Search strategy and status of studies

Search strategy: The search strategy comprises two components: (i) where to search and (ii) how to search (search strings for database searches). The search strategy varies for the two maps. The interventions map requires a full search of databases and other sources. The ADB Portfolio map requires a search of the ADB project repository (adb.org/projects). The search strategy outlined below will be further developed with our Information Specialist.

Interventions map: The places to be searched include: (i) academic databases; (ii) working and discussion paper series; (iii) institutional websites; (iv) hand search key journals; (v) reference snowballing and citation tracking. The academic databases to be searched will be confirmed after testing each database against a list of 10-12 'benchmark studies' which we expect the search to find. The list of benchmark studies will be sent to IED and the AG for comment.

For the database search we will draw on advances in machine learning which have shown machine learning based searches to be more efficient than traditional database searches.¹ We will select the most relevant database for this project – CAB Direct – for an initial search to identify eligible studies as the training dataset for the machine learning search. The machine learning search will be conducted in EPPI Reviewer software, which accessed the OpenAlex (https://openalex.org/) database for this source.

We will also search the 3ie database, as this is a very specialised database restricted to effectiveness studies. We will search working and discussion paper series such as Asian Development Bank Economics Working Paper Series, Donor Committee for Enterprise Development, IDS Working Papers, IDOS (formerly DIE) Discussion Papers, IZA Discussion Papers, NBER Working Papers, USAID Development Experience Clearing House, and World Bank Policy Research Working Papers. We will also search think-Asia, a repository of reports from Asian think tanks. Institutional websites to be searched include China Development Research Foundation, c4d, IDOS, IDS, JPAL, CEGA, IPA, ID Insight, Research Institute for Global Value Chains, UNIDO, UNCTAD, UNU-WIDER, OECD, IRRI, IFPRI, UN-ESCAPE, ADBI, UNEP and WTO. We will hand search the last five years of relevant journals such as International Journal of Value Chain Management, Journal of Economic Structures, Journal of Supply Chain Management, Journal of Industrial and Business Economics, Journal of Supply Chain Forum, and the American Journal of Supply Chain Management, as well as more general development journals such as Journal of Development Studies, Journal of World Development, Journal of International Development and Journal of development effectiveness. We will also screen the references of included studies (snowballing) and use citation tracking in Google Scholar to identify papers which cite the included studies.

ADB portfolio map: We will retrieve information on projects from the ADB project repository on all approved, active, and closed projects which were approved since July 2018 – December 2021. The identification of relevant non-lending activities will be discussed with IED.

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¹ Unpublished research by EPPI Centre shows that machine learning searches now out-perform manual database searches in both sensitivity and specificity.

Screening and selection of studies

We will develop a screening tool for the intervention map, using the agreed PICOS (which are informed by the taxonomy) for the inclusion and exclusion criteria. The screening tool will be piloted against a set of approximately 50 potentially eligible studies, and the tool will be revised as necessary. All identified studies will be double screened (i.e., screened independently by two screeners) using the coding framework developed at the scoping stage. There will be two teams of screeners to expedite the timeline, in each case a senior experienced researcher (NDC and SM) being teamed with a consultant SCW with prior experience of screening and coding. The same approach will be used to determine the criteria for eligible interventions from the ADB project and non-lending portfolios.

Data extraction, coding and management

All included studies will be double coded (i.e., coded independently by two coders) using the coding framework developed at the scoping stage. This framework will be piloted, and modified as necessary following the 'revise, refine, define' approach described in the Campbell EGM Guidance (White et al., 2020). ²⁴ Coding will be performed in EPPI Reviewer, a custom-built software for coding for maps and reviews. EPPI reviewer has in-built machine learning search and screening, which we will use as appropriate. The data are exported from EPPI Reviewer to EPPI Mapper, a custom-built app, commissioned by the Campbell Collaboration, which generates the online, interactive map. The EGM will be accompanied by a report which describes the distribution of available evidence, and evidence gaps, by the intervention typology and outcome, as well as other characteristics which have been coded such as country and region.

Coding and generation of ADB portfolio EGM

All eligible ADB projects will be coded using the coding framework for the interventions EGM, excluding the study design-related codes. As for the interventions map, the ADB portfolio map will be double coded in EPPI Reviewer, and the EGM generated using EPPI Mapper. The project overview from the project page will be captured in the abstract field in EPPI Reviewer.

Quality control and peer review

Quality control takes place through the following mechanisms: (i) double coding for both maps, (ii) regular meetings with IED, (iii) feedback from the Advisory Group; and (iv) use the Campbell Collaboration editorial process. Regarding (iv), the review will be registered with Campbell's International Development Coordinating Group (IDCG), which is an independent editorial group housed by 3ie. IDCG will provide peer review of the protocol and final report (it is possible that the latter is not provided in the project timelines, so we will rely on IED/ADB and AG feedback). In addition, screeners and coders will be involved in meetings for the development of the typology and receive further training during the piloting process to ensure full understanding of the concepts. The lead screeners and coders for this work have worked previously on maps and reviews related to value chains and finance.

Unit of Analyses

If some studies are published in one or more types of publications such as working paper and a journal article, the most recent paper will be included in the map. Some systematic reviews are also published in two or more ways, but the Campbell review version is considered in the map.

Formative review (lessons learned briefs on selected interventions)

For the formative review we propose to summarize findings from up to eight clusters of studies in 'lessons learned briefs on selected interventions. These clusters will most likely be related to specific attribute and outcome combinations from the EGM taxonomy. Given the varied nature of the study designs, these summaries are most likely to be short narrative reviews. But, where possible, then meta-analysis will be performed. The topics for the clusters will be identified in consultation with IED and the AG. This selection will be informed by: (i) where there are sufficient studies identified in the intervention EGM; (ii) areas of interest ADB as identified by the ADB portfolio EGM. It is possible that priority areas are identified which are not currently areas with much ADB activity.

Transfer of data

All coding for the two EGMs will be undertaken in the online systematic review software, EPPI Reviewer. These data can be exported to a JSON file. The EGM itself is a searchable database of the coding. We will provide the full code set for all included studies to IED.

Planned analyses and Presentation

The coding framework and coding tool which includes the filters are presented in Appendix A, B, D and E. The map will showcase the default matrix of intervention categories (column attribute) against the outcome categories (row attribute). Other versions of the map will include target group receiving the intervention against the intervention categories and outcome categories as well; sector filters against intervention and outcome categories; and country filter against intervention categories. The report will describe the evidence according to these intervention categories, outcome categories, and the firm types. Summary tables on the characteristics of the included studies will also be included. A narrative summary of the results of the systematic reviews will also be presented.

Filters in the EGM of interventions include, study design, type of value chains, country, target group, sector, and gender. Filters for the ADB portfolio map include study designs, project sources, operational priorities, country, target group, sector and gender.

Advisory Group (AG)

We will form an advisory group comprising academic researchers, IED staff and ADB staff from operations or research, a policy representative from an Asian country. For researchers we have invited David Dollar, co-author of the ADB GVC report 2021, and Tilman Altenburg (confirmed), lead author of the Sustainable Global Supply Chains Report 2022. We will consult IED for advice on the other members to invite.

Project management Intellectual oversight is provided by HW, with day-to-day project management by SCW. SCW will manage the workflow for piloting and in EPPI Reviewer. We propose weekly management meetings with IED which will be attended by all members of the study team (HW and AW as needed at the appropriate stages).

Quality Appraisal

We will not use a critical appraisal tool for the primary studies and systematic reviews but coding on study design or methodology is covered in the data extraction tool.

Stakeholder engagement

The existing proposed framework will be reviewed by an Advisory Group comprising of the following:

- 1. IED staff, Alexander Wellsteed
- 2. Tilman Altenburg, lead author of the Sustainable Global Supply Chains Report 2022
- 3. David Dollar, co-author of the ADB GVC report 2021
- 4. ADB staff from operations or research Nathan Subramanium

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Declarations of interest

No conflicts of interest

Preliminary timeframe

The draft map will be generated in May 2023, and the final version of the map by June 2023.

Plans for updating the EGM

We plan to update the map (or support others in doing so) when sufficient further studies and resources become available.

Appendix A: Coding Framework

Lists the categories of attributes and examples of attributes.

Categories of	Examples of	Definitions/Descriptions
attributes	attributes	
Value chain	Policy and	Regulatory policy is about achieving
governance	regulatory	government's objectives using regulations, laws,
	framework	and other instruments to deliver better
		economic and social outcomes and thus enhance
		the life of citizens and business.
	Purchase	The definition of purchase agreement is a type of
	agreements	contract that outlines various terms and
	between producers	conditions related to a sale of goods.
	and buyers	
	Public-private-	Public-private partnership (PPP), partnership
	producer	between an agency of the government and the
	partnership	private sector in the delivery of goods or services
		to the public.
	Multi-stakeholder	Multi-stakeholder platforms (MSPs)
	platforms	are purposely organized interactive processes.
		They bring together a range of stakeholders to
		participate in dialogue, decision making and/or
		implementation, with the aim to address a
		common problem or achieve a common goal.
	Corporate	Corporate governance is the system of rules,
	governance	practices, and processes by which a firm is
		directed and controlled. Corporate governance
		essentially involves balancing the interests of a
		company's many stakeholders, such as
		shareholders, senior management executives,
		customers, suppliers, financiers, the
		government, and the community.
Financial and in-	Financial support	Financial support is the money provided to
kind products and	to micro	enable an organization to continue. This money
services	enterprises	is usually provided by the government.

	Input supplies	Input supplies means any goods other than capital goods used or intended to be used by a supplier in the course or furtherance of business.
	Export guarantees	Export credit guarantees are an established
		instrument for promoting foreign trade. They
		protect exporters and banks from loss of
		receivables caused by economic and political
		factors. The range of products available addresses the entire value chain from
		production and delivery to payment of the final
Composite building	Conscitutorildina	instalment.
Capacity building	Capacity building	Capacity-building is defined as the process of
/capacity	at the community	developing and strengthening the skills, instincts,
development	level	abilities, processes, and resources that
		organizations and communities need to survive,
	G	adapt, and thrive in a fast-changing world.
	Capacity building	Capacity-building is defined as the process of
	to intermediate	developing and strengthening the skills, instincts,
	NGOs	abilities, processes, and resources that
		organizations and communities need to survive,
	m 1 : 1	adapt, and thrive in a fast-changing world.
	Technical	Technical assistance, form of aid given to less-
	assistance to	developed countries by international
	village leaders	organizations such as the United Nations (UN)
		and its agencies, individual governments,
		foundations, and philanthropic institutions.
	Form of media:	Digital learning" is a learning method based on
	digital, in-person	the use of new digital tools to enable learners to
	training etc.	learn in a different way, whether it be face-to-
		face, distance learning (asynchronous or
		synchronous) or blended learning.
Direct support to	Establishment of	To set up a place where plants are grown for
GVC involvement	village nursery	transplanting, for use as stock for budding and
		grafting, or for sale.

	Making contractual arrangements	A contractual agreement is a legally binding agreement between two parties. The contract's terms and conditions will require the parties to either do or refrain from doing specific actions.
Upgrading	Product and	Improving product quality and increasing value
	process upgrading	for consumers—may be stimulated by changes
Enterprise		in end markets, usually stemming from changes
upgrading		in customer preferences, or the desire for higher
presupposes that a		value added, higher quality, and consequently
firm advances		more profitable products on the part of MSEs.
from stagnant to	Certification	Certification schemes consist of two key
increasing	schemes and	elements:
income,	standards	The entered of the control of the co
productivity and		The criteria outlining specific data
employment.		protection requirements. This form the
(Altenburg 2017)		'standard' against which the conformity
		of a product or service is assessed.
We define		 The audit methodology and testing
enterprise		methods that are used by the
upgrading as		certification body to carry out that
"growth through		assessment.
innovation",		
where innovation	Policy options	
includes all kinds	assisting SMEs:	
of improvements	regular monitoring	
in products and	and more rigorous	
processes	incorporation	
(including	requirements and	
production and	standards for	
marketing) that	suppliers	
allow a company		
to become	Functional	Functional upgrading is the entry of a firm into a
competitive and	upgrading	new, higher value-added function or level in the
reap innovation		value chain.
rents (Schmitz	Technical support	A service provided by a hardware or software
	for product	company which provides registered users with
	processing	help and advice about their products.

Development and dissemination of improved technology Access to quality inputs and technology Postharvest handling practices addresses issues of handling, information transportation, and temperature control for crops after harvest. Technology the publicizing the application of scientific knowledge for practical purposes, especially industry: to increase sales or public awarene producers and buyers made in advance on specific terms and conditions for the producers.	ıs a
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Linkages Contract farming Contract farming is an agreement between producers and buyers made in advance on	in
producers and buyers made in advance on	ess
specific terms and conditions for the produc	
1	tion
and marketing of agrifood products.	
Strengthening To make relationships between equals in an	
horizontal linkages organization stronger or more effective	
Strengthening To make the lines of responsibility through	
vertical linkages which a supervisor delegates authority to	
subordinates, oversees their activities, evalu	ates
their performance, and guides them toward	
improvement when necessary stronger or meeffective	ore
Market The Marketing Information System refers to	the
information systematic collection, analysis, interpretation	
systems storage, and dissemination of the market	
information, from both the internal and exte	

	sources, to the marketers on a regular,
	continuous basis.
Linkage to global	Global sourcing means to source products and
sourcing partners	services from outside providers, drawing upon
	options from multiple countries or blocs. In
	essence, this approach includes having teams of
	individuals work from various locations,
	including across countries. Linking of global
	sourcing partners.
Vertical linkages	Vertical linkages tie supervisors and
in production,	subordinates together. These linkages show the
processing, and	lines of responsibility through which a
trade functions	supervisor delegates authority to subordinates,
	oversees their activities, evaluates their
	performance, and guides them toward
	improvement when necessary. Every supervisor
	except for the person at the very top of the
	organization chart also serves as a subordinate
	to someone else.
Linking farmers	Connecting farmers with large processors
with large	
processors	
Chain linkage	Joining together two indices that overlap in one
programmes	period by rescaling one of them to make its value
programmos	equal to that of the other in the same period,
	thus combining them into single time series.
	More complex methods may be used to link
	together indices that overlap by more than
	period.
Value chain	Connecting small scale producers with
development-	Input suppliers are involved with extension and
linking of small-	advisory services (EAS) programs in most
scale producers	countries and – like it or not – will continue to
with input	be involved as this is in their self-interest and
suppliers and	trader, Traders are individuals who engage in
traders	the short-term buying and selling of a financial
1	

bank, brokerage firm, or hedge fund. Collaborative networks An alliance of entities (e.g., organizations and people) that are autonomous, geographically distributed, and heterogeneous in terms of their operating environment, culture, social capital, and goals but that collaborate to better achieve common or compatible goals, and whose interactions are supported by computer network. Exchanges An act of giving one thing and receiving another (especially of the same kind) in return between buyers and sellers e.g., meetings, fairs and exchanges. Multi-stakeholder platforms (MSPs) are purposely organized interactive processes. They bring together a range of stakeholders to participate in dialogue, decision making and/or implementation, with the aim to address a common problem or achieve a common goal. Institutional marketing is the strategy responsible for the set of communication actions of a company with its audience.		asset for themselves or an institution such as a
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marketing arrangements Institutional marketing is the strategy responsible for the set of communication actions		common problem or achieve a common goal.
arrangements responsible for the set of communication actions	Institutional	
arrangements	marketing	g 6.
of a company with its audience.	arrangements	•
		of a company with its audience.
The goal of this strategy is to build and		The goal of this strategy is to build and
strengthen the brand's image in the market.		
strengthen the brand's image in the market.		strengthen the brand's image in the market.
Marketing Cooperative marketing essentially involves	Marketing	Cooperative marketing essentially involves
cooperatives understanding or an agreement between two	cooperatives	understanding or an agreement between two
companies aiming to promote or sell the other		companies aiming to promote or sell the other
companies' products.		companies' products.
Linkages to higher Connecting to higher value chain markets for	Linkages to higher	Connecting to higher value chain markets for
value chain horticulture products	value chain	horticulture products
markets for	markets for	

horticult		
Establish institution		onnecting farmer organizations
linkages farmers'	between	
organiza	ions	

Appendix B: Outcome Framework

Lists the categories of outcomes and sub categories of outcomes

Outcomes	Sub categories	Definitions/Descriptions
Intermediate	Technical knowledge and	"Technical knowledge" refers to the ability
outcomes	skills	to complete complex tasks.
		Skill is the ability to do something well;
		expertise.
	Risk taking behaviour	Risk-taking behaviour refers to the
		tendency to engage in activities that have
		the potential to be harmful or dangerous.
	Use of financial products	The central concept behind
	and services	a financial product is that it lets you
		convert your fiat currency into something
		that can be bought and sold with others
		on a market.
Value chain	GVC participation	Participation in global value chains
outcomes		(GVCs), the international fragmentation
		of production, can lead to increased job
		creation and economic growth.
	Producer share of final	Producer Share means the share of Net
	product price	Profits that is typically attributed to the
		services provided as Executive Producer
		to any series.

	Formation of market	The term linkage obviously implies a
	linkages	physical connection between the producer
		and the ultimate consumer. Linkages also involve financial transactions - the selling
		and buying of goods.
Firm and farm	Employment creation	The fact of someone being paid to work
level outcomes		for a company or organization.
	Productivity	The rate at which a company or country
		makes goods, usually judged in
		connection with the number of people and
		the amount of materials necessary to
		produce the goods.
	Sales	The exchange of a commodity for money;
		the action of selling something.
	Exports	Export refers to a product or service
		produced in one country but sold to a
		buyer abroad.
	Net income and profits	Net income is the total amount of money an individual or business earned in each
		period, minus taxes, expenses, and
		interest.
		The profit is defined as the amount gained
		by selling a product, which should be
		more than the cost price of the product.

Wellbeing	Non-productive assets including housing	Economic well-being is defined as having present and future financial security. Present financial security <i>i</i> ncludes the ability of individuals, families, and communities to consistently meet their basic needs (including food, housing, utilities, health care, transportation, education, child care, clothing, and paid taxes), and have control over their day-to-day finances. It also includes the ability to make economic choices and feel a sense of security, satisfaction, and personal fulfilment with one's personal finances and employment pursuits. Future financial security includes the ability to absorb financial shocks, meet financial goals, build financial assets, and maintain adequate income throughout the lifespan. These assets derive value because of their limited availability and because people want these (for whatever reasons) i.e. excessive demand chasing limited supply.
	Health and nutrition (including food security)	Food security is the state of having reliable access to a sufficient quantity of affordable, nutritious food.

Social and environmental outcomes	Child labour	The employment of children in an industry or business, especially when illegal or considered exploitative.
	Climate effects	Periodic modification of Earth's climate brought about as a result of changes in the atmosphere as well as interactions between the atmosphere and various other geologic, chemical, biological, and geographic factors within the Earth system.

Appendix C: Search strategy

(((Afghanistan) OR (Armenia) OR (Armenian) OR (Australia) OR (Azerbaijan) OR (Bangladesh) OR (Bhutan) OR (brunei) OR (Darussalam) OR (Cambodia) OR (china) OR (China, Peoples Republic of) OR (Cook Islands) OR (Fiji) OR (Hong Kong) OR (georgia republic) OR (Georgian) OR (india) OR (Indonesia) OR (Japan) OR (Kazakhstan) OR (Kazakh) OR (Kyrgyzstan) OR (Kirghizia) OR (Kirgizstan) OR (Kiribati) OR (kyrgyz republic) OR (kirghiz) OR (laos) OR (lao pdr) OR (lao people's democratic republic) OR (Malaysia) OR (malay federation) OR (malaya federation) OR (Maldives) OR (Marshall Islands) OR (Micronesis Federated states of) OR (indian ocean islands) OR (indian ocean) OR (Mongolia) OR (Myanmar) OR (Burma) OR (Nauru) OR (Nepal) OR (New Zealand) OR (Niue) OR (democratic peoples republic of korea) OR (republic of korea) OR (north korea) OR (korea) OR (south korea) OR (Pakistan) OR (Palau) OR (Papua New Guinea) OR (Philippines) OR (philipines) OR (phillippines) OR (phillippines) OR (Samoa) OR (Singapore) OR (Solomon Islands) OR (srilanka) OR (tajikistan) OR (tadjikistan) OR (Tadzhikistan) OR (Tadzhik) OR (Taipei) OR (Taiwan) OR (Thailand) OR (timor leste) OR (Tonga) OR (east timor) OR (Turkmenistan) OR (Turkmen) OR (Tuvalu) OR (Uzbekistan) OR (uzbek) OR (Vanuata) OR (Vietnam) OR (viet nam) OR (asia, central) OR (central asia) OR (asia, northern) OR (north asia) OR (northern asia) OR (asia, southeastern) OR (south eastern asia) OR (south eastern asia) OR (south east asia) OR (south east asia) OR (asia, western) OR (western asia)) AND ((AB:(("governance" OR "policy framework" OR "regulatory framework" OR "purchase agreements" OR "producers" and "buyers" OR "public-private-producer

partnership" OR "multi-stakeholder" OR "financial support" OR "input supplies" OR "export guarantees" OR "import" OR "export" OR "capacity development" OR "capacity building" OR "technical assistance" OR "training" OR "direct support" OR "contractual arrangements" OR "upgrading" OR "product upgrading" OR "process upgrading" OR "certification schemes" OR "certification standards" OR "functional upgrading" OR "technical support" OR "product processing "OR "dissemination" OR "improved technology" OR "quality inputs technology" OR "postharvest handling information" OR "technology promotion" OR "market information systems" OR "trade functions" OR "collaborative networks" OR "institutional marketing arrangements"OR "marketing cooperatives" OR "linkages" OR "higher value chain markets" OR "establishing institutional linkages" OR "linkages farmer organisations" OR "environment" OR "green supply chain" OR "child labour" OR "wages" OR "labour standard"))) AND ((AB:(("crop" OR "crops" OR "food" OR "produce" OR "agri-product*" OR "agro-food" OR "tuber*" OR "root crop*" OR "barley" OR "oat*" OR "rye" OR "wheat" OR "arrowroot" OR "artichoke*" OR "banana*" OR "yam*" OR "breadfruit" OR "chickpea*" OR "lentil*" OR "pea*" OR "bean*" OR "potato*" OR "cassava*" OR "millet" OR "rice" OR "amaranth" OR "paddy" OR "maize" OR "sorghum" OR "corn" OR "cashew*" OR "meat" OR "fish" OR "vegetable*" OR "chicken" OR "turkey" OR "duck" OR "fruit" OR "staple crop*" OR "cash crop*" OR "rubber" OR "plantain*" OR "sugarcane" OR "timber" OR "cotton" OR "coffee" OR "tea" OR "bean*" OR "legume*" OR "spice*" OR "livestock" OR "pork" OR "poultry" OR "shrimp" OR "cattle" OR "cow*" OR "beef" OR "pig*" OR "goat*" OR "sheep" OR "milk" OR "dairy" OR "tomato*" OR "carrot*" OR "onion*" OR "cauliflower" OR "grain*" OR "cereal" OR "soybean*" OR "peanut*" OR "oilseed*" OR "citrus" OR "fodder" OR "hay" OR "silage" OR "forage" OR "palm" OR "melon*" OR "avocado*" OR "flower*" OR "pulse*" OR "ground nut*" OR "egg*" OR "strawberr*" OR "currant*" OR "*berry" OR "*berries" OR "mango*" OR "guava*" OR "papaya*" OR "pawpaw" OR "paw-paw" OR "orange*" OR "lemon*" OR "spinach" OR "lettuce" OR "mushroom*" OR "pepper*" OR "microgreen*") NEAR/3 ("processing" OR "packaging" OR "trade" OR "trading" OR "retail*" OR "transport*" OR "distribution" OR "storage" OR "storing" OR "branding" OR organic OR certification)) OR ab:(("crop" OR "crops" OR "food" OR "produce" OR "agri-product*" OR "agro-food" OR "tuber*" OR "root crop*" OR "barley" OR "oat*" OR "rye" OR "wheat" OR "arrowroot" OR "artichoke*" OR "banana*" OR "yam*" OR "breadfruit" OR "chickpea*" OR "lentil*" OR "pea*" OR "bean*" OR "potato*" OR "cassava*" OR "millet" OR "rice" OR "amaranth" OR "paddy" OR "maize" OR "sorghum" OR "corn" OR "cashew*" OR "meat" OR "fish" OR "vegetable*" OR "chicken" OR "turkey" OR "duck" OR "fruit" OR "staple crop*" OR "cash crop*" OR "rubber" OR "plantain*" OR "sugarcane" OR "timber" OR "cotton" OR "coffee" OR "tea" OR "bean*" OR "legume*" OR "spice*" OR "livestock" OR "pork" OR "poultry" OR "shrimp" OR "cattle" OR "cow*" OR "beef" OR "pig*" OR "goat*" OR "sheep" OR "milk" OR

"dairy" OR "tomato*" OR "carrot*" OR "onion*" OR "cauliflower" OR "grain*" OR "cereal" OR "soybean*" OR "peanut*" OR "oilseed*" OR "citrus" OR "fodder" OR "hay" OR "silage" OR "forage" OR "palm" OR "melon*" OR "avocado*" OR "flower*" OR "pulse*" OR "ground nut*" OR "egg*" OR "strawberr*" OR "currant*" OR "*berry" OR "*berries" OR "mango*" OR "guava*" OR "papaya*" OR "pawpaw" OR "paw-paw" OR "orange*" OR "lemon*" OR "spinach" OR "lettuce" OR "mushroom*" OR "pepper*" OR "microgreen*") NEAR/3 ("processing" OR "packaging" OR "trade" OR "trading" OR "retail*" OR "transport*" OR "distribution" OR "storage" OR "storing" OR "branding" OR organic OR certification)) OR de:(processing OR packaging OR trade OR "retail marketing" OR transport OR distribution OR storage OR branding OR "ecommerce" OR "intellectual property" OR "R) OR (AB:(fairtrade OR "fair trade" OR "contract farming" OR "post-harvest management" OR "making markets work" OR "market system*" OR "Participatory Market Chain Approach" OR "market development*" OR "market intervention*" OR "agricultural product market*" OR "supply chain*" OR "production to consumption system*" OR "farmers' based organisations" OR "farmers' based organization*" OR "farmer based organization*" OR "farmer based organization" OR "farmers' group*" OR "farmers group*" OR "cooperative*" OR "value-add*" OR "value-chain*" OR "global value chain*" OR "market modernization" OR "market modernisation" OR "modern market*" OR " marketing channel*" OR "commercialization channel*" OR "commercialisation channel*" OR "high-value chain*" OR "high-value market*" OR "agrifood transformation*" OR "agri-food transformation*" OR "agrifood system*" OR "agri-food system*" OR "agrifood chain*" OR "agri-food chain*" OR "food industry" OR "food sector" OR "food system" OR "e-commerce" OR "cold chain" OR "wholesale market" OR "market reform*" OR "market linkage*" OR "market system development" OR "commodity chain*" OR "commodities chain*" OR "handicraft*" OR "artisan*" OR "self-help group*" OR "public-private partnership*" OR "small and mediumsize* enterprise*" OR SMEs OR "small enterprise*" OR "rural enterprise*" OR "microenterprise*" OR "microenterprise*") OR ((vertical OR horizontal) NEAR/2 ("integration" OR "coordination" OR "linkage*")) OR ab:(fairtrade OR "fair trade" OR "contract farming" OR "post-harvest management" OR "making markets work" OR "market system*" OR "Participatory Market Chain Approach" OR "market development*" OR "market intervention*" OR "agricultural product market*" OR "supply chain*" OR "production to consumption system*" OR "farmers' based organisations" OR "farmers' based organization*" OR "farmer based organization*" OR "farmer based organization" OR "farmers' group*" OR "farmers group*" OR "cooperative*" OR "value-add*" OR "value-chain*" OR "market modernization" OR "market modernisation" OR "modern market*" OR "marketing channel*" OR "commercialization channel*" OR "commercialisation channel*" OR "highvalue chain*" OR "high-value market*" OR "agrifood transformation*" OR "agri-food

transformation*" OR "agrifood system*" OR "agri-food system*" OR "agrifood chain*" OR "agri-food chain*" OR "food industry" OR "food sector" OR "food system" OR "e-commerce" OR "cold chain" OR "wholesale market" OR "market reform*" OR "market linkage*" OR "commodity chain*" OR "commodities chain*" OR "handicraft*" OR "artisan*" OR "self-help group*" OR "public-private partnership*" OR "small and medium-size* enterprise*" OR SMEs OR "small enterprise*" OR "rural enterprise*" OR "micro-enterprise*" OR "microenterprise*") OR ((vertical OR horizontal) NEAR/2 ("integration" OR "coordination" OR "linkage*")) OR de:("contract farming" OR "post-harvest" OR market OR marketing OR "farmers' based organisations" OR "farmers' associations" OR "value added" OR "value chain" OR enterprises OR commercialization OR handicrafts OR "vertical integration"))) AND (AB:("smallhold*" OR "small hold*" OR "microfarm*" OR "micro-farm*" OR "pastoral*" OR "agropastoral" OR "agro-pastoral" OR "ejido" OR "silvopastoral" OR "farm*" OR "agricultur*" OR "producer*" OR "grower*" OR "agronomy" OR "husbandry" OR "aquacultur*" OR "floricultur*" OR "horticultur*" OR "cultivat*" OR "dairy" OR "livestock" OR "crop*") OR ab:("smallhold*" OR "small hold*" OR "microfarm*" OR "micro-farm*" OR "pastoral*" OR "agropastoral" OR "agro-pastoral" OR "ejido" OR "silvopastoral" OR "farm*" OR "agricultur*" OR "producer*" OR "grower*" OR "agronomy" OR "husbandry" OR "aquacultur*" OR "floricultur*" OR "horticultur*" OR "cultivat*" OR "dairy" OR "livestock" OR "crop*") OR de:(smallholders OR pastoral OR farm OR agriculture OR agronomy OR husbandry OR aquaculture OR floriculture OR horticulture OR dairy OR livestock OR crop)) AND ((((review N3 (effectiveness or effects or systemat* or synth* or integrat* or methodologic* or quantitative or evidence or literature) or "evidence gap" or "gap map")) OR (("Meta regression" or "meta synth*" or "meta-synth*" or "meta analy*" or "metaanaly*" or "meta-analy*" or "metanaly*" or "Metaregression" or "Meta-regression" or "Methodologic* overview" or "pool* analys*" or "pool* data" or "Quantitative* overview" or "research integration")) OR (("quasi experiment*" or quasi-experiment* or "random* control* trial*" or "random* trial*" or rct* or (random* N3 allocat*) or evaluat* or impact* or assess* or difdif or psm or "double difference" or difference-in-difference or rdd or "difference in difference" or "statistical matching*" or "propensity score matching" or "covariate matching" or "coarsened-exact matching" or "propensity-weighted" or "multiple regression" or "statistical regression" or "regression discontinuity*" or "cohort analysis" or "quantitative method*" or "program* evaluation" or "interrupted time series" or (before N5 after) or (pre N5 post) or ((pretest or "pre test") and (posttest or "post test")) or (("fixed effect*" or "random effect*") N3 (model or estimation)) or "instrumental variable" or "synthetic control" or ((quantitative or qualitative or "comparison group*" or counterfactual or "counter factual" or counter-factual or experiment* or panel or cross-sectional) N3 (design or study or analysis)))) OR ((random* or experiment* or (match* N2 (propensity or coarsened or

covariate)) or "propensity score" or "difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*" or "quasi-experimental" or "quasi experiment" or "quasi-experiment" or "quasi experiment" or (before N2 after) or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or "regression discontinuity" or "time series" or "segment* regression" or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)) or "systematic review" or "systematic literature review" or meta-analy* or "meta analy*"))))

Appendix D: Coding Tool for intervention map

Type of value chain	Local value chain
	Regional value chain
	Global value chain
Study design	Experimental-RCT/natural
	experiment
	Non-experimental/causal-
	comparative
	Systematic Reviews
	Case study
	• Modelling
Attributes	Global value chain governance
	 Financial and legal products and
	services
	Capacity building
	• Direct support to GVC
	• Linkages
	• Upgrading

Outcome categories	Intermediate outcomes
2	Global value chain outcomes
	Firm and farm level outcomes
	Wellfare outcomes
	Social and environmental outcomes Obilately area.
	- Child labour
	- Environmental effects
Intervention target groups	• Farm
	• Firm
	Private organisation
	Government
	• NGO
Country by Region	Afghanistan
	Armenia
	Azerbaijan
	Bangladesh
	• Bhutan
	Cambodia
	Cook Island
	Federated states of Micronesia
	• Fiji
	Georgia
	• India
	 Indonesia (Bahasa Indonesia)
	Kazakhstan
	Kiribati
	Kyrgyz Republic
	Lao Peoples Democratic Republic
	Malaysia
	Maldives
	Marshal Islands
	Mongolia Myonmor
	Myanmar Nourse
	• Nauru
	• Nepal

	 Niue Pakistan Palau Papua New Guinea Peoples Republic of China Phillipines Samoa Solomon Islands Sri Lanka Tajikistan Thailand Timore Leste Tonga
Sectors	 Turkmenistan Tuvalu Uzbekistan Vanuatu Vietnam Regional Agriculture, natural resources and
	rural development Education Energy Finance Health and social protection Industry and trade Manufacturing Multisector Public sector management Transport and ICT Water and other urban infrastructure and services
Gender	Gender focussed (women only intervention

Mention of gender (not gender
focussed, but discussion of gender)
Not gender focussed

Appendix E: Coding Tool for projects

Type of value chain	• TA
	• NSO
	Loan and Grants
Attributes	Global value chain governance
	• Financial and legal products and
	services
	Capacity building
	• Direct support to GVC
	• Linkages
	• Upgrading
Intervention target groups	• Farm
	• Firm
	Private organisation
	Government
	• NGO
Outcome categories	• Intermediate outcomes
	Global value chain outcomes
	• Firm and farm level outcomes
	• Welfare outcomes
	Social and environmental outcomes
	– Child labour
	- Environmental effects

Sectors	 Agriculture, natural resources and rural development Education Energy Finance Health and social protection
	 Industry and trade Multisector Public sector management Transport and ICT Water and other urban infrastructure and services Information and communication technology
Country by Region	 Afghanistan Armenia Azerbaijan Bangladesh Bhutan Cambodia Cook Island Federated states of Micronesia
	 Fiji Georgia India Indonesia (Bahasa Indonesia) Kazakhstan Kiribati Kyrgyz Republic Lao Peoples Democratic Republic
	 Malaysia Maldives Marshal Islands Mongolia Myanmar

	Noum-
	Nauru
	• Nepal
	• Niue
	• Pakistan
	• Palau
	Papua New Guinea
	Peoples Republic of China
	 Phillipines
	• Samoa
	Solomon Islands
	Sri Lanka
	• Tajikistan
	 Thailand
	Timore Leste
	• Tonga
	Turkmenistan
	Tuvalu
	Uzbekistan
	• Vanuatu
	• Vietnam
	Regional
	Rogiona
Operational priorities	Addressing remaining poverties and
	reducing inequalities
	Accelerating progress in gender
	equality
	Tackling climate change, building
	climate and disaster resilience and
	enhancing environmental
	sustainability
	Making cities more liveable
	Promoting rural development and
	food security
	Strengthening governance and
	institutional capacity

	Fostering regional cooperation and integration
Gender	Gender focussed (women only
	intervention
	Mention of gender (not gender
	focussed, but discussion of gender)
	Not gender focussed