

8th Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific

Agriculture Beyond the Covid-19 Pandemic:
Building Back Better through Sustainable Agricultural Mechanization

Presented by
Chaitya Narayan Dangol
Senior Agricultural Engineer
Prime Minister Agriculture Modernization Project
Khumaltar, Lalitpur
Nepal

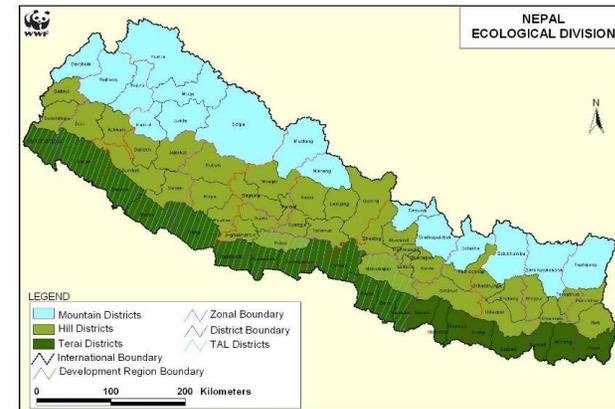
Nepal in Brief



Federal Democratic Republic of Nepal from 2007

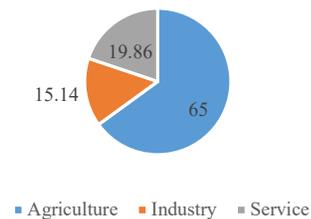
- 3 tiers of Government
- Federal Government
- State Government – 7
- Local Government – 753
- Total Area: 147,181 km²
- Total Population : Approx. 30 millions

Description	Area Coverage(%)	Population Density (%)	Altitude (m)
Mountain	35	7	3500 - 8848
Hill	42	43	600 - 3500
Terai	23	50	70 - 600



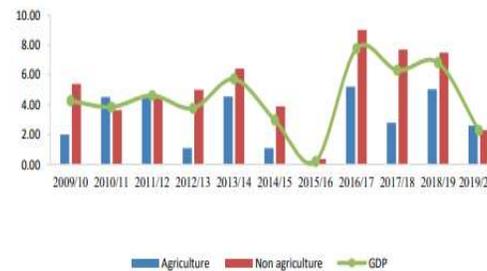
Nepalese Agriculture in Brief

Sectoral Employment in Nepal



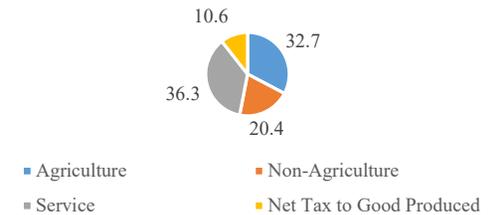
Source: Thaman P. Bastola, 2020

GDP growth rate at base price



Source: Economic Survey, NRB, 2019/2020

Sectoral GDP Contribution, 2019/2020



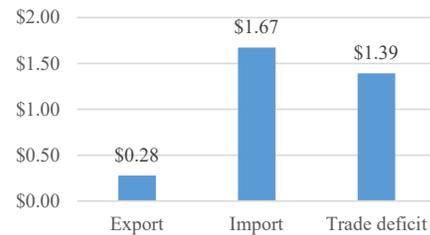
Source: Economic Survey, NRB, 2019/2020

Productivity of Major Crops



Source: Agricultural Statistics of Nepal, 2018/2019

Agriculture Trade, billion



Source: Agricultural Statistics of Nepal, 2018/2019

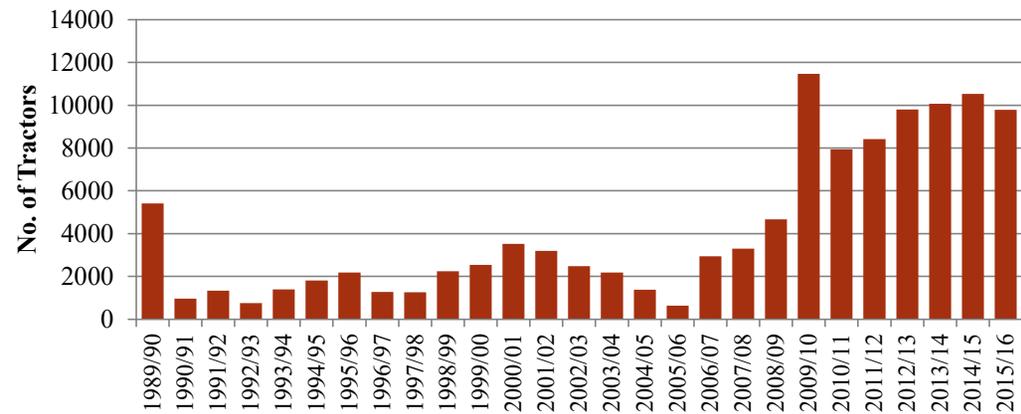
Irrigation



Source: Economic Survey, NRB, 2019/2020

Nepalese Agriculture in Brief

Land Holdings			
	Average holding, ha/holding	Average no of parcel/holding,	Average size of parcel, ha
Mountain	0.73	4.03	0.18
Hill	0.65	3.18	0.21
Terai	0.94	3.2	0.29
Nepal	0.79	3.27	0.24



Trend of Tractor/Power Tiller Registered

Agricultural Machinery Import , 2016/17

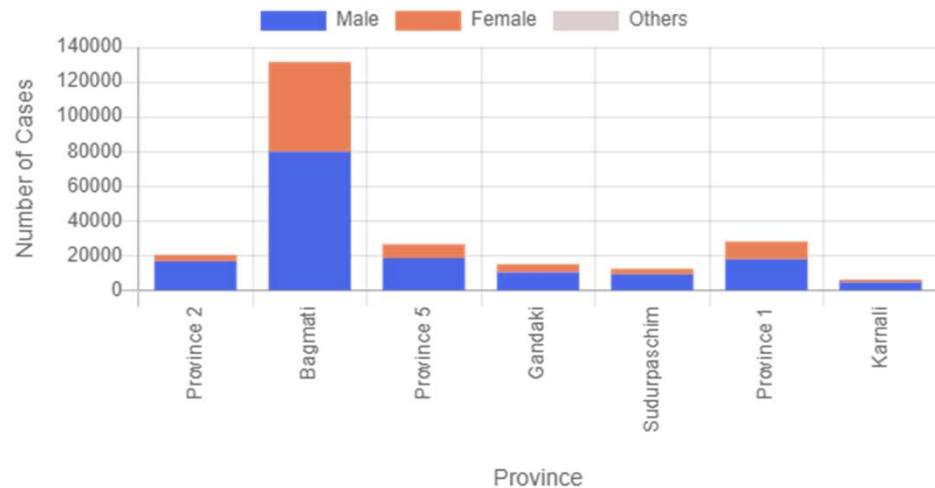
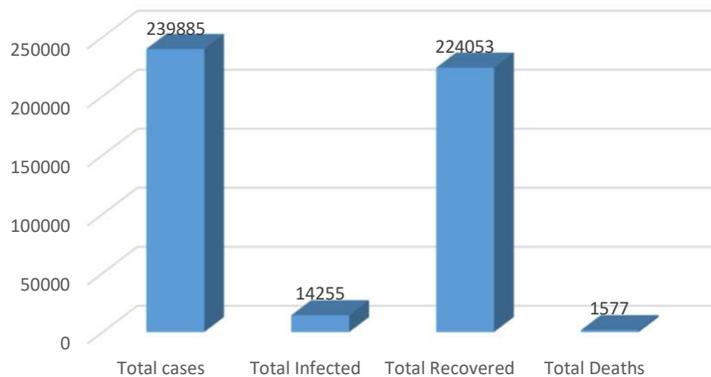
HS Code	Description	Unit	Quantity	Value in NPR '000	Source Country
87011010/87011090/87019000	Tractor including Power Tiller	PCS	38,896	11,451,192	India, China
84321000	Ploughs	PCS	18,946	20,386	India, China
84322100	Disc harrows	PCS	4,595	35,125	India, UK
84322900	Harrows (excl disc harrows), scarifiers, cultivators, weeders, hoes including Mini Tiller	PCS	221,151	1,070,647	India, China, Indonesia
84323000	Seeders, planters and transplanters	PCS	2,763	20,042	India, China
84328000	Soil preparation/cultivation machinery; lawn/sports-ground rollers	PCS	38,068	143,689	India, China
84332000	Mowers (including cutter bars for tractor mounting)	PCS	1,129	26,899	India, China, Australia
84334000	Straw or fodder balers (including pick-up balers)	PCS	677	9,095	India, China
84335100	Combine harvester-threshers	PCS	1,930	353,761	India, China, Japan
84335200	Threshing machinery for agricultural produce	PCS	21,933	654,189	India, China, New Zealand, Turkey
84335300	Root or tuber harvesting machines	PCS	2,711	23,855	India, China
84335900	Harvesting machinery	PCS	17,802	58,737	India, China, Japan
84361000	Machinery for preparing animal feeding stuffs	PCS	176,638	697,678	India, China, Netherlands, Germany, Republic of Korea
84362100	Poultry incubators and brooders	PCS	844,222	219,934	India, China, UK, Malaysia
84371000	Machines for cleaning/sorting/grading seed grain or dried vegetables	PCS	10,666	508,893	India, China, Germany, Republic of Korea

Source: website of Department of Customs (<http://www.customs.gov.np/en/newdata.html>)

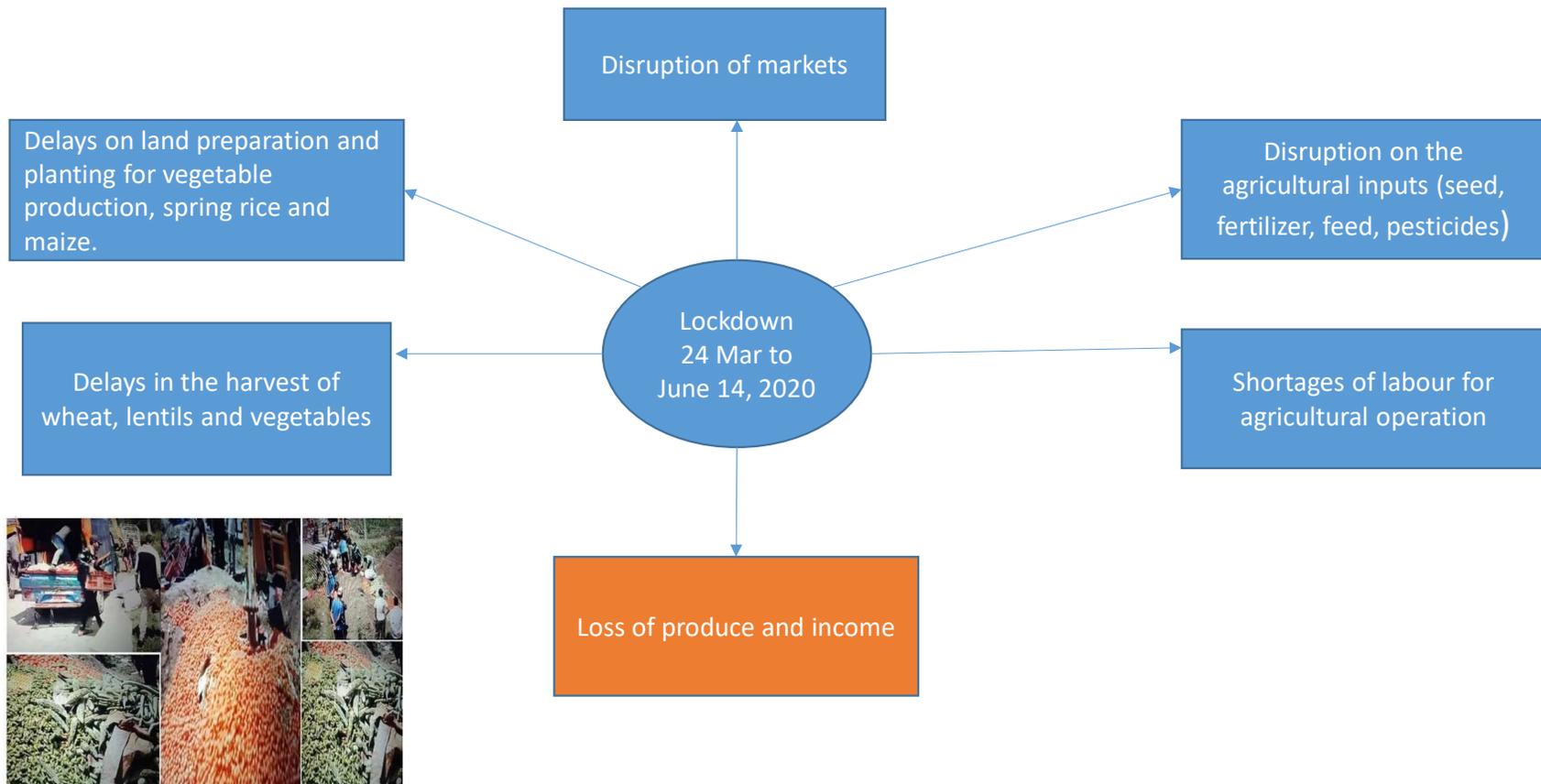
Covid-19 Scenario in Nepal

- First Case in Nepal: 24 January 2020
- Lockdown Period: March 24 to June 14, 2020
- 15-20% infected rate based on number of PCR Test

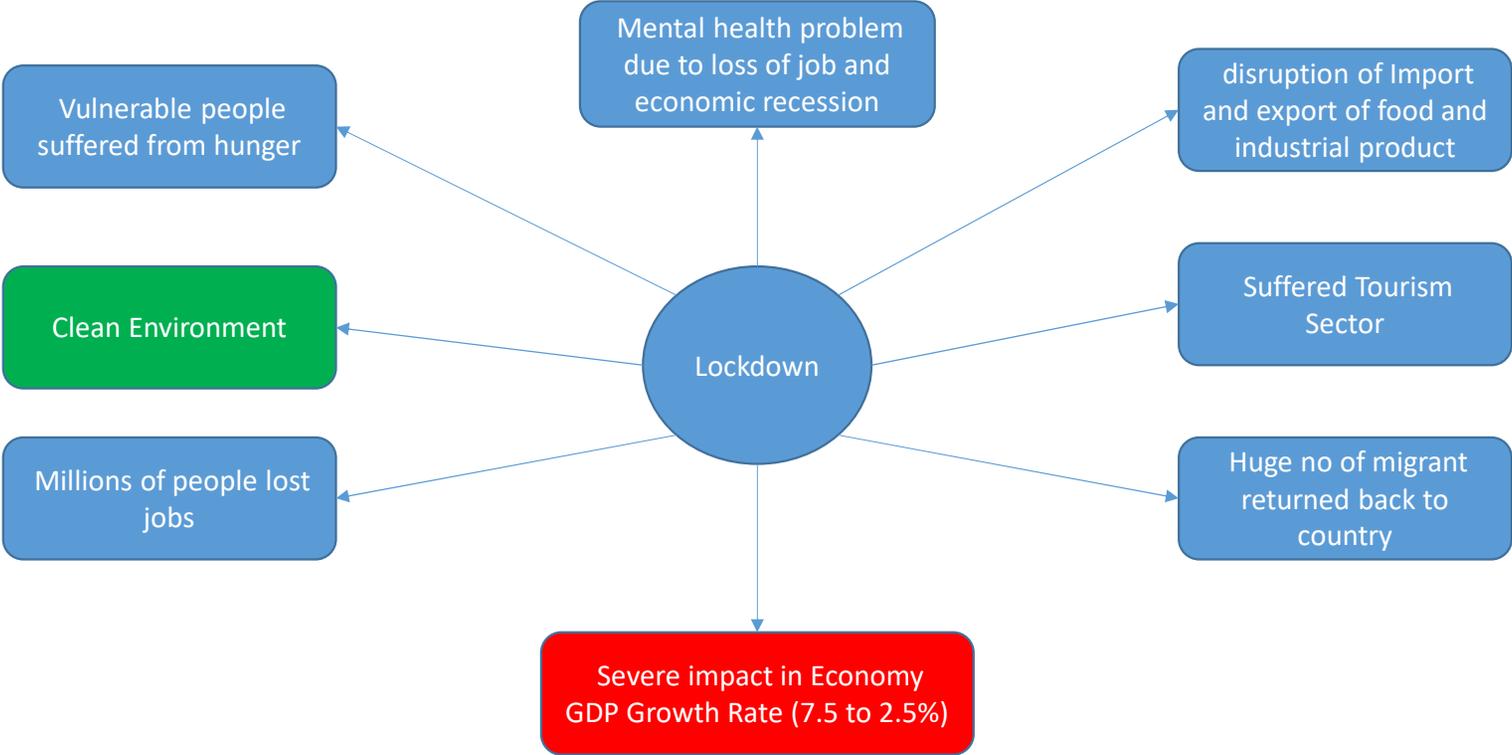
Covid-19 Statistics by Dec 6, 2020



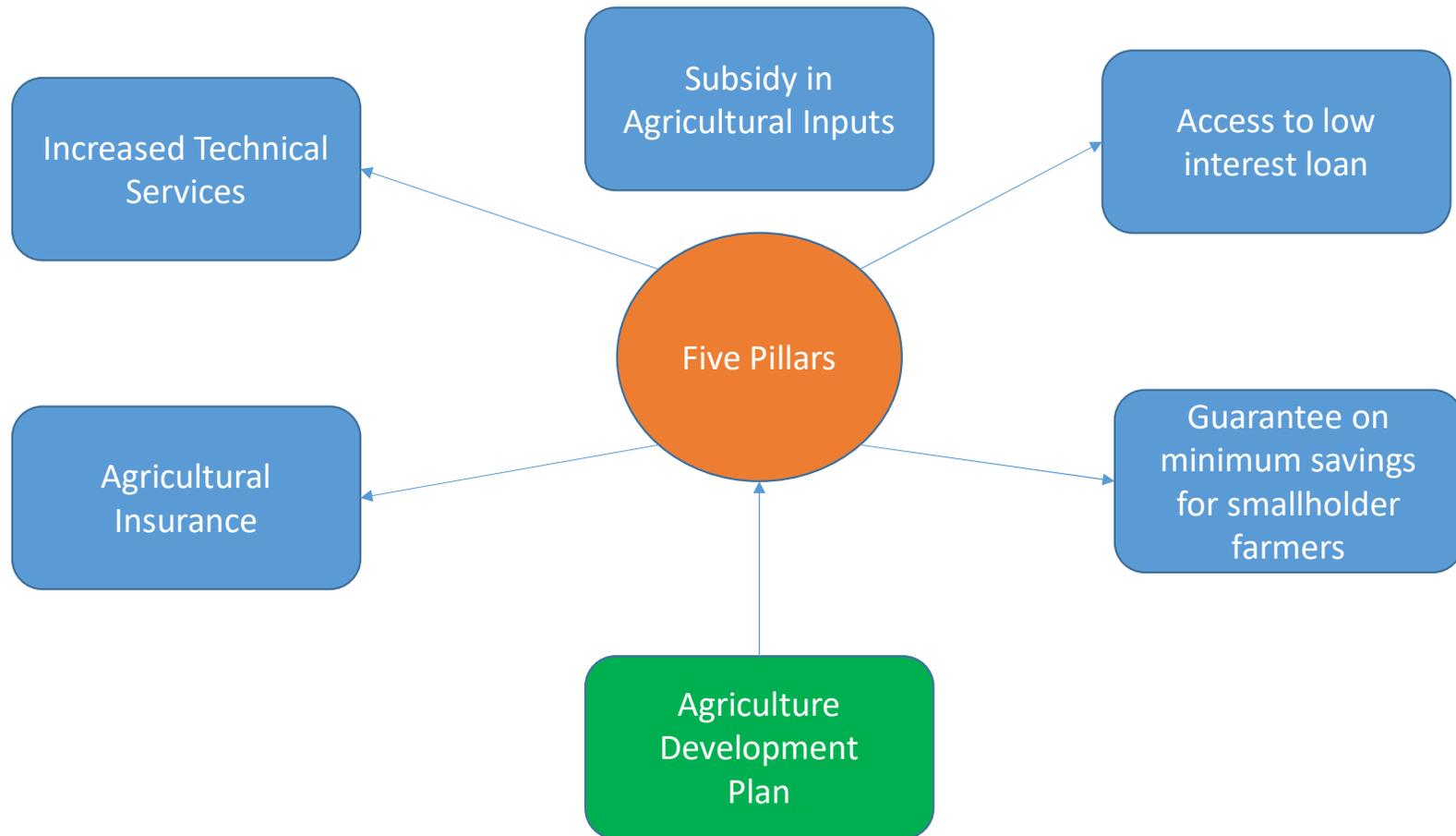
Impact of Covid-19 in Agriculture



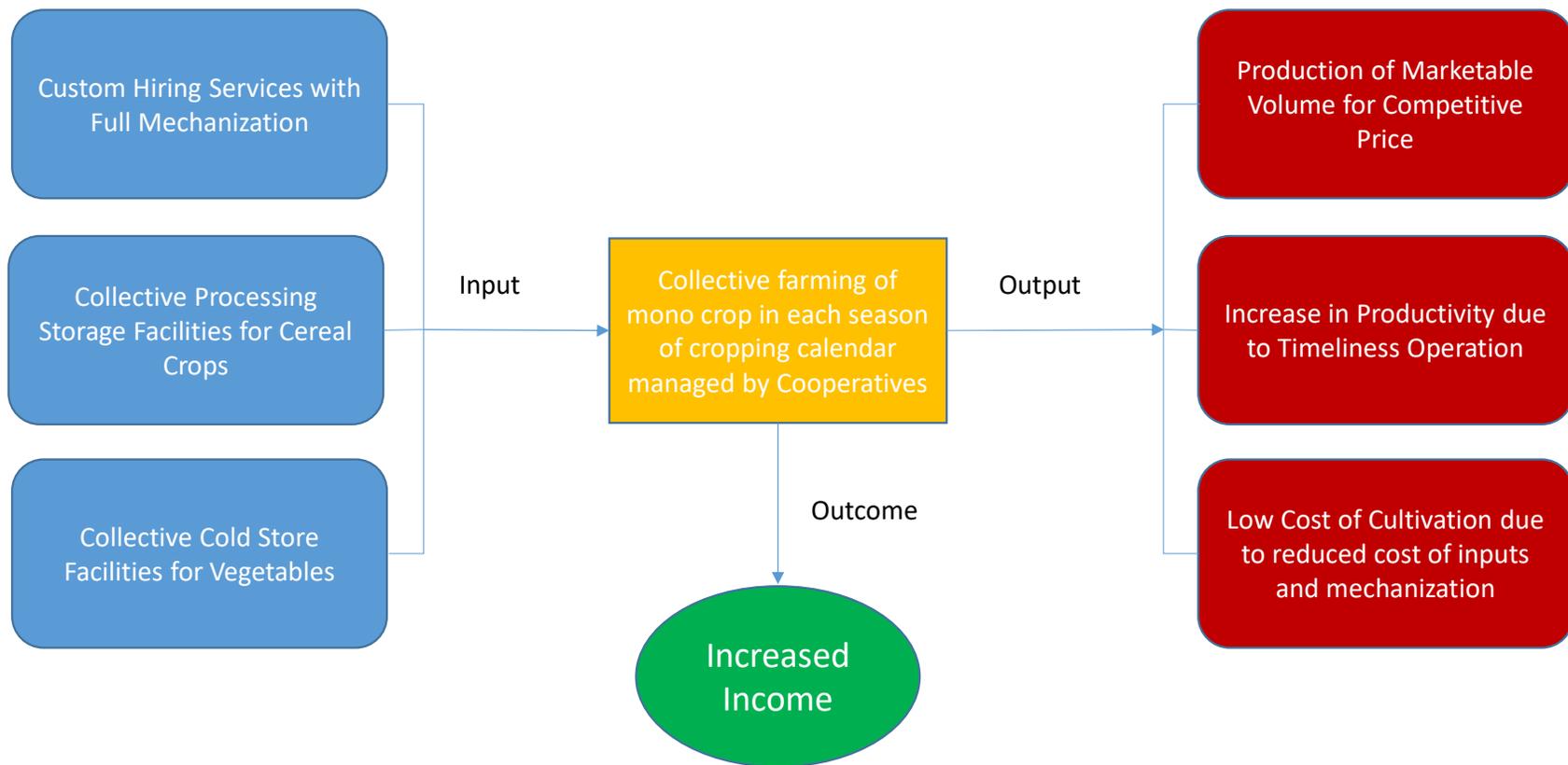
Social and Environmental Impact of Covid-19



Govt. Initiatives to Revive Agriculture



Policy Measures to Promote Sustainable Agricultural Mechanization



Enabling Environment for Sustainable Agricultural Mechanization

Institute for Training & Testing of Agricultural Machineries

```
graph TD; A[Institute for Training & Testing of Agricultural Machineries] --> B[1. Training on Repair and Maintenance<br/>2. Training on Selection and Operation]; A --> C[1. Testing of Agricultural Machineries in terms of Capacity, Specification and Quality]; A --> D[1. Registration of Agricultural Machineries prior to Import];
```

1. Training on Repair and Maintenance
2. Training on Selection and Operation

1. Testing of Agricultural Machineries in terms of Capacity, Specification and Quality

1. Registration of Agricultural Machineries prior to Import

THANK
YOU