

COOPERATIVE INNOVATIONS & STABILISATION OF PRODUCERS' ACCESS TO MARKET: THE CASE OF INDIA

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AC&SD 2016 Conference
13/12/2016



Dairy market liberalisation

1991 Gradual liberalisation

PROTECTIONNISM

Tariff + channeling of products and investments

Cooperative societies Act 1912
Industry act 1951
Essential commodity act 1955
NDDB Operation flood 1965
Milk and Milk Products Order 1992
Producer Company Foreign Direct Investment 2003
2012

1946 Kaira strike
1955

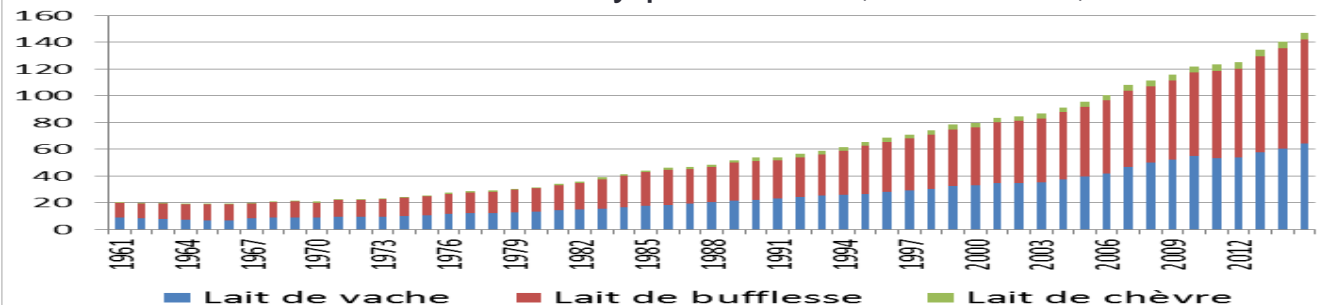
Creation of the « Kaira District Cooperative Milk Producers' Union »

COOPERATION
As driver of dairy development

COOPERATION
remains the way of development
(exclusion zones)

COMPETITION
+ diversification
of the cooperative models

Indian dairy production (millions tonnes)



Emerging questions

- **Growth of the inner demand**
 - 180 million tons en 2022
 - -> + 5 million tons /year over the next 15 years
- **Increased competition** with private dairies since 2000
- A cooperative model in evolution: **Milk Producers Company**
- **Will the very small farm remain at the heart of the dairy sector development model?**
 - 70 millions dairy farmers including 15 millions cooperative members
 - Less than 3 bovines or buffalos per farm on average, including 1 or 1,3 female (Livestock Census)

Methodology

- **Institutional framework of dairy chain analysis:**

An analysis of coordination devices to shed light on value creation and sharing (Fligstein, 1996; Dervillé et Allaire, 2014)

- Rules of exchange
- Conception control & market structure
- Governance structure
- Property right

- **Farmers inclusiveness thought in terms of rights and duties**

Property right: « right to undertake certain actions » (Commons, 1925) ; a bundle of rights at the origin of various status (Ostrom, 1990)

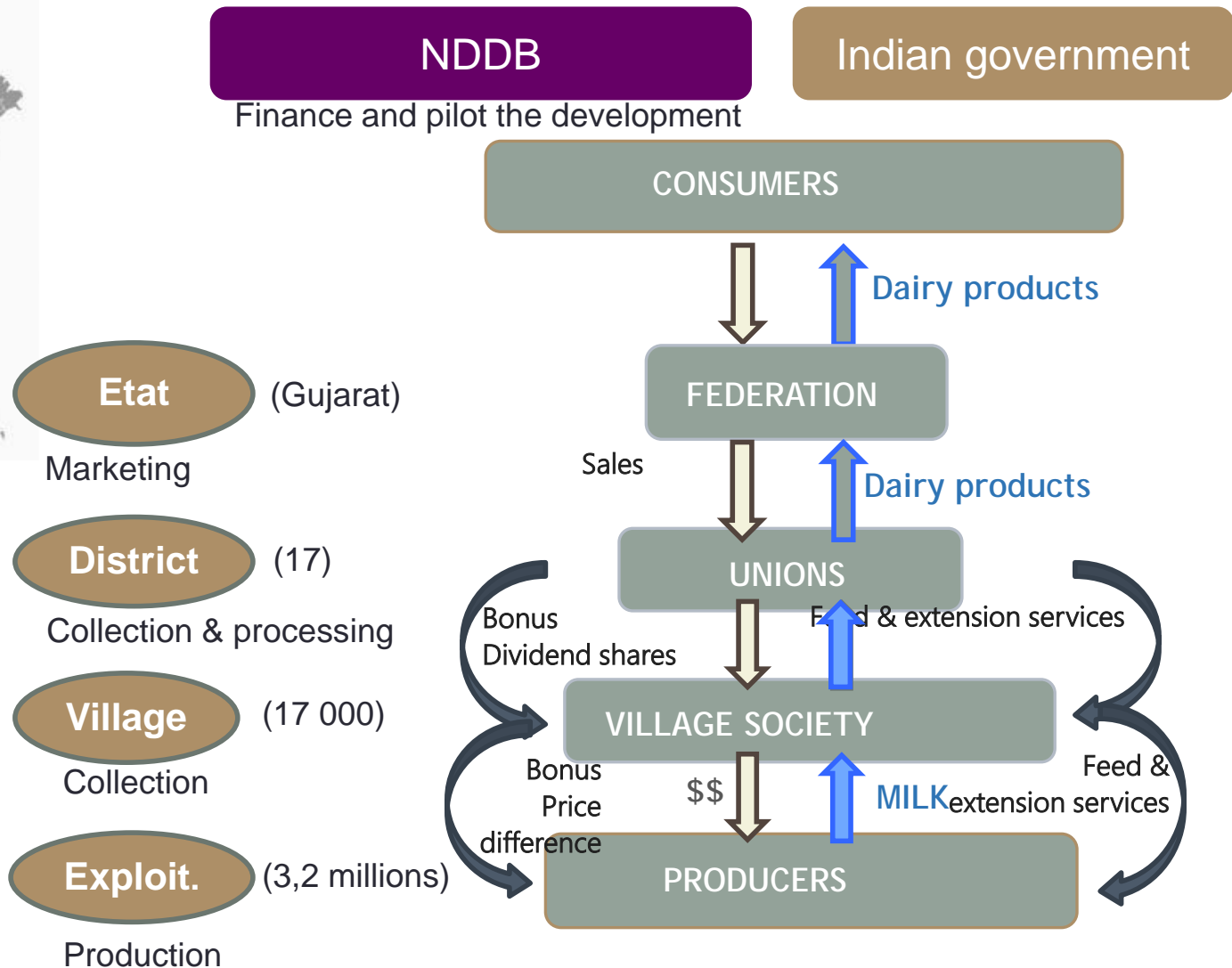
- Market access
- Access to the value created
- Right to take part in collective choice rules elaboration

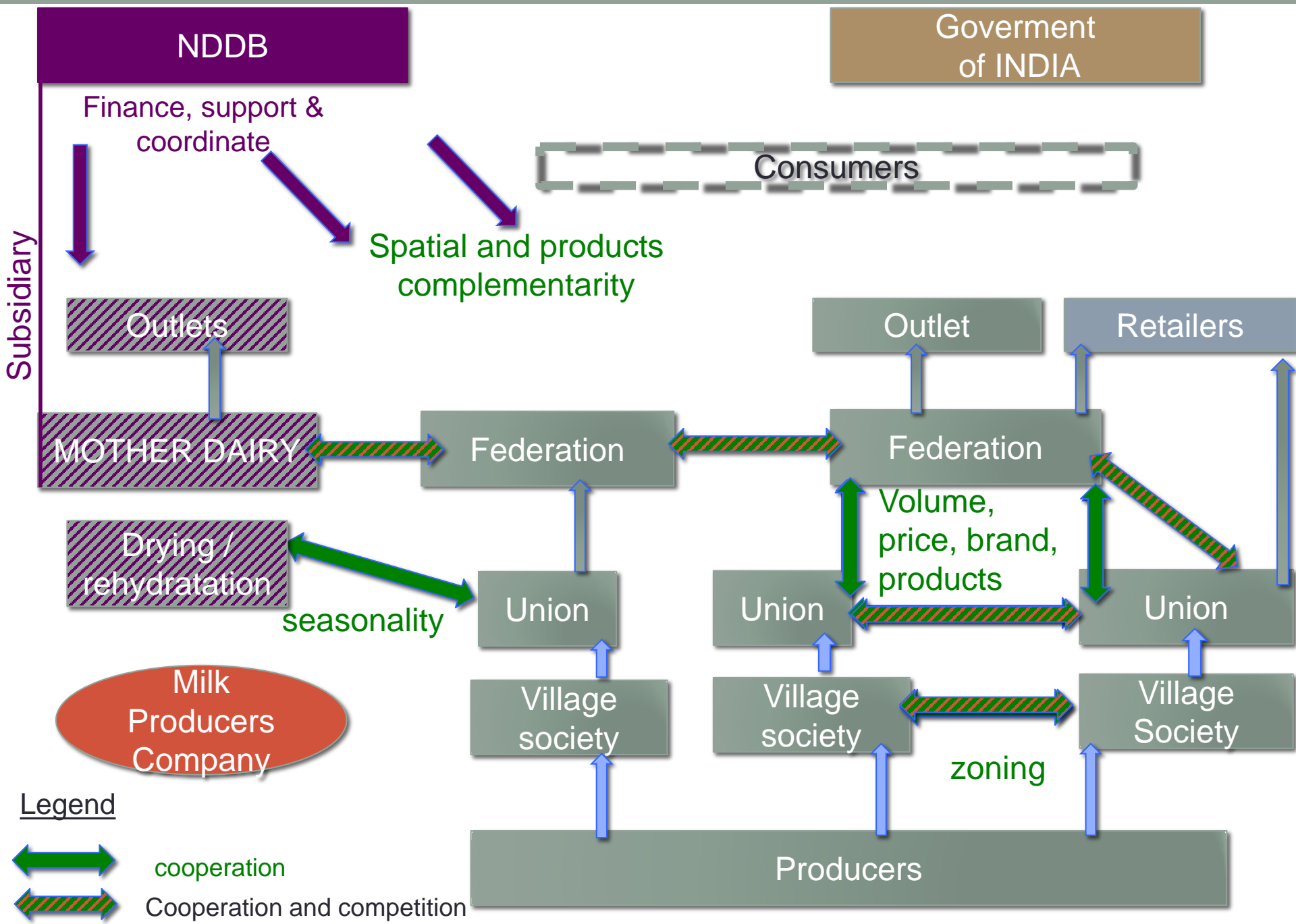
- **Literature** (including activity reports) + **70 interviews**

Result 1: Cooperatives' organisational innovations and value creation

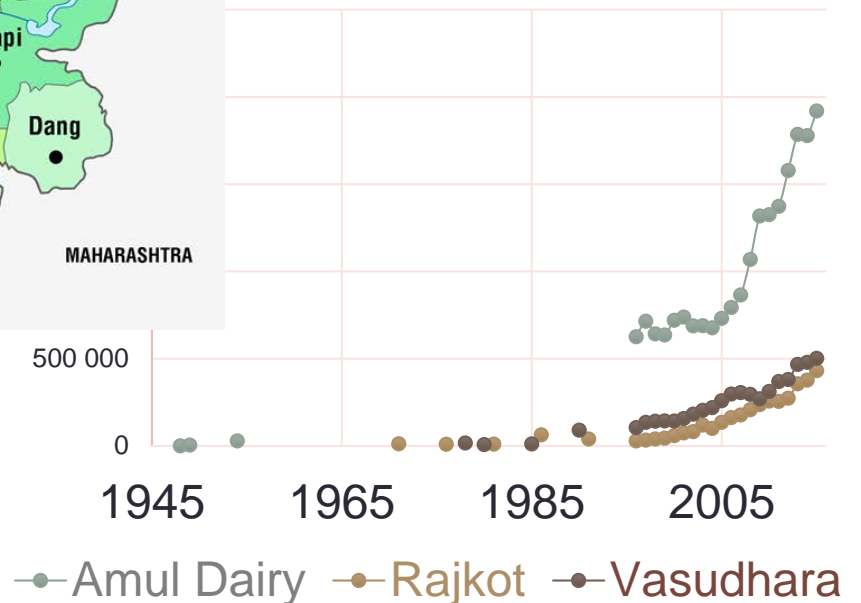
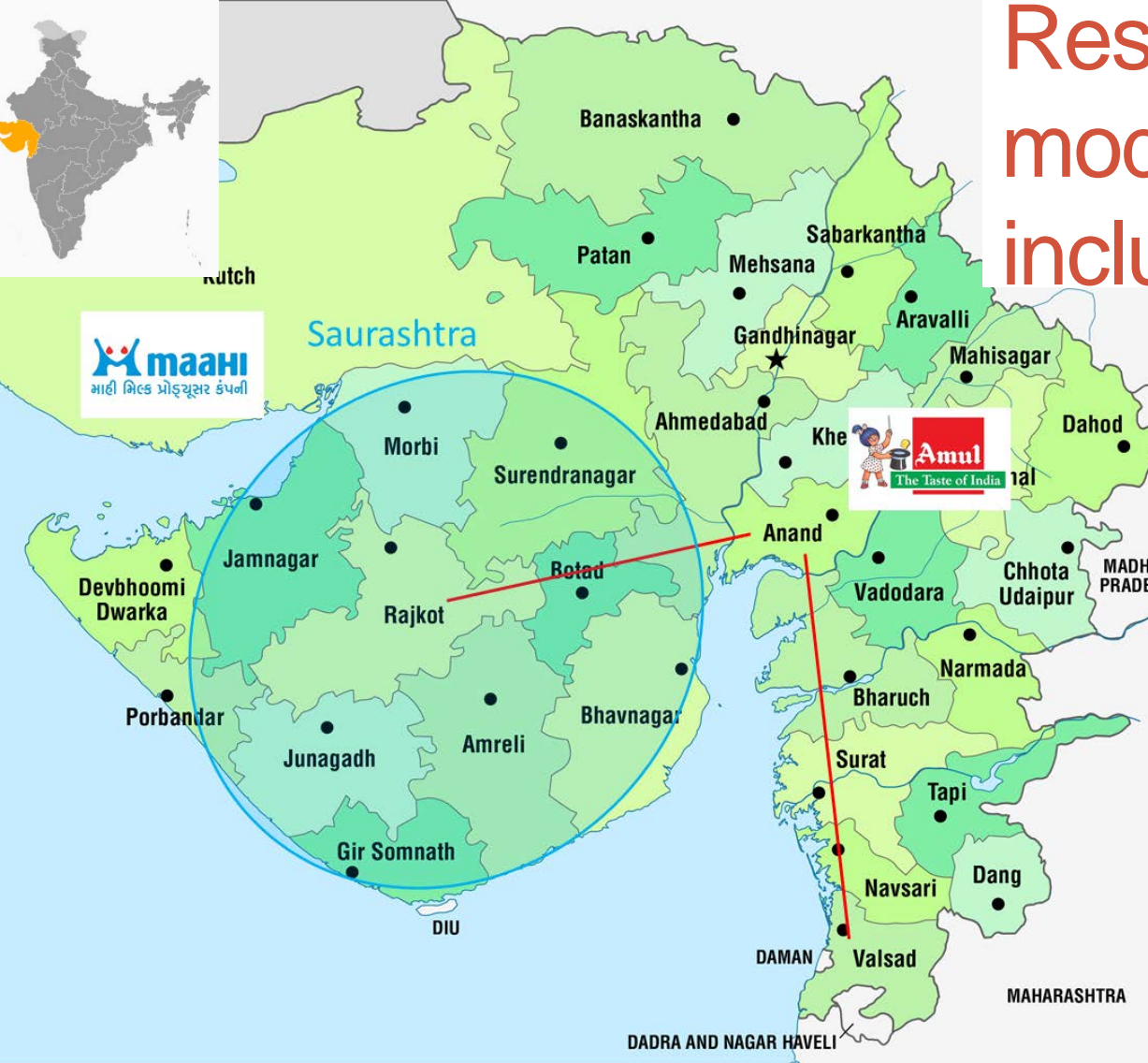


3 tiers model





Result 2: Diversity of models as a driver of inclusiveness



Collection networks & business models

	Rajkot Dairy	Vasudhara	Amul Dairy	Maahi
Number of members	69 000	120 681	684 807	98 000
Av. Delivery per member (LPD)	6,5	4	3	6,5
Cow milk	22 %	87 %	60 %	20 %
Buffalo milk	78 %	13 %	40 %	80 %
Share of the production collected	15%	28%	50%	?
Population type	Urban	Rural		
Products	Liquid milk, Butter Milk, Ghee			
	Peda	Peda + Dahi + icecream+ aromatised milk	Full Amul range including cheeses	SMP
Turnover 2014-2015 (billion Rps)	6,9		41,5	9,9
Share realised with another organisation	36%	64%	?	50 %

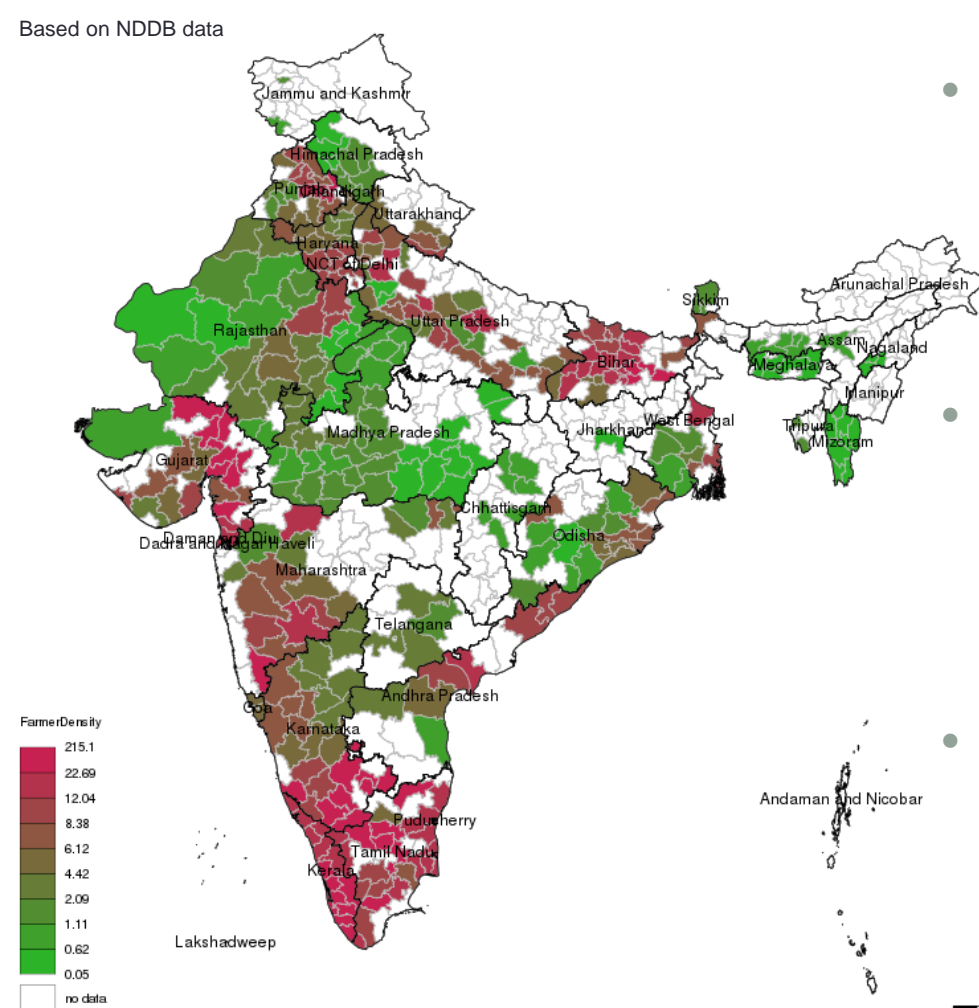
Specific conditions to access market

	INDIAN COOPERATIVES	Regional variability	French cooperatives
MEMBERS	Cattle ; > 750L/year Social share: 10 Rps	Criteria: +/- respected Access to non-members	Producers Social share
QUALITY date criteria scale	Since 1956 TB (+ TP) India + Union	Formula adapted to the average characteristics of the milk collected	Since 1969 TB + TP + bacterial count
PRICE	Federation Framework Union turnover Validation by the producers	Raj Vasu Cattle: 24,3 - 28,3 Rps/l Buffalo: 40,3 – 35 RpsL/l	Board based on interpro. indicators
VOLUME	Full collection	+/- direct sale	Contractual Volume
PROD. COSTS	Support to production increase & cost reduction : AI, feed, vet...	Services prices & availability (Feed: +/- 4Rps/kg AI (15 -> 130 Rps) + service availability	Bulk purchase & bargaining

Result 3: Institutional innovation with the creation of MPC & adaptation to the liberalisation

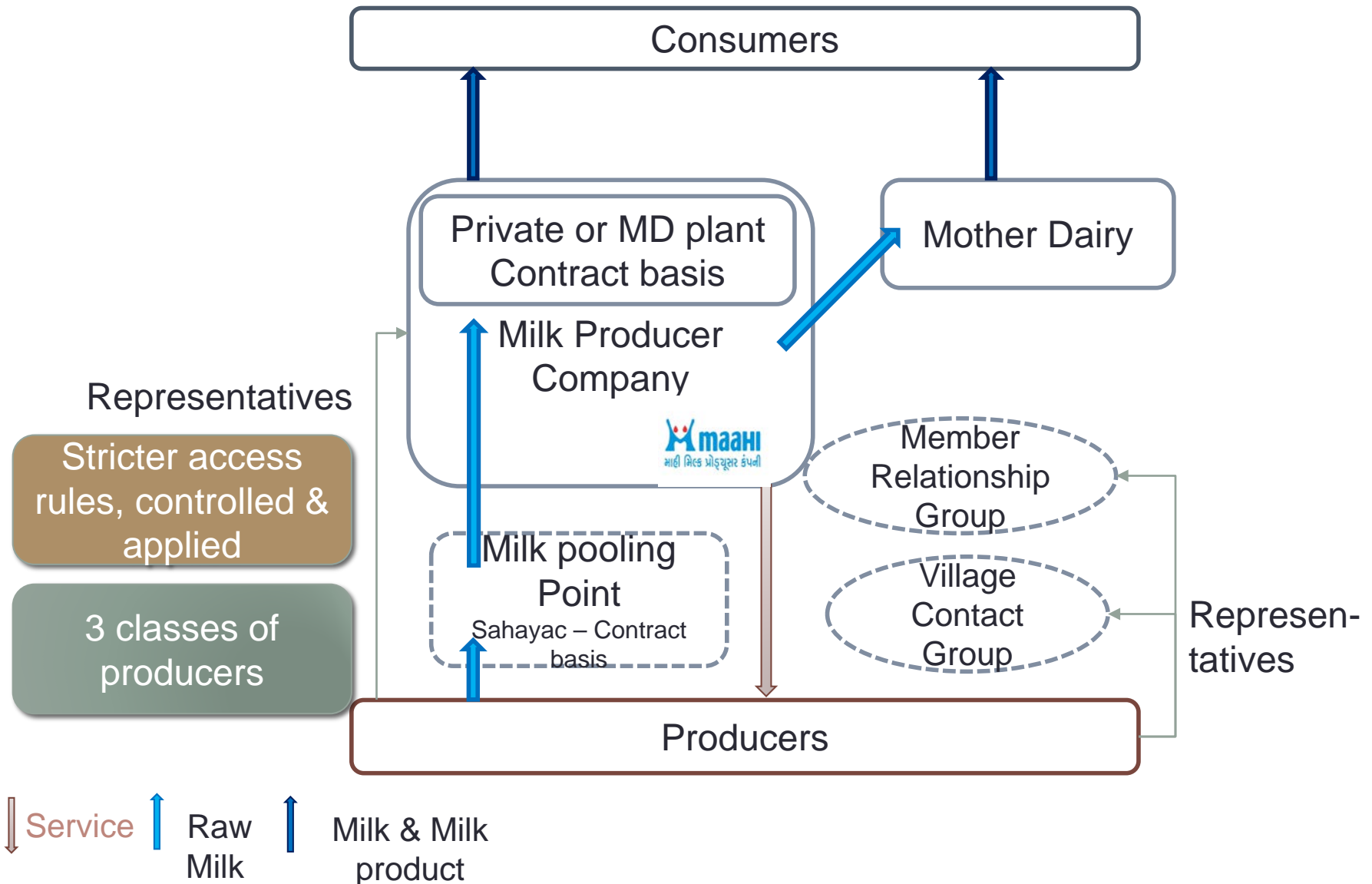
FarmerMembers / Area, person / km2, 2015

Based on NDDB data



- Limits of the traditional cooperative model (Ebrahim, 2000; Singh, 2013)
 - Efficiency issue : adm., funding
 - Growth of collection by private firms
- The required interface between producers and market (Singh, 2008)
 - Mutualisation, scale economy, development
- Cooperatives features but inscription in the Company act
 - Only producers as members
 - Profit sharing based on patronage
 - Joint-venture and alliance; reserves mandatory

Patronage & business orientation strengthened



Preliminary conclusions & perspectives

- Network of cooperatives & MPC allowing a maximisation of the producers dairy income through
 - Price, bonus, technical support
- Adaptation of the coordination devices framing market access to the diversity of territorial context for a better inclusion
- Inclusiveness in terms of access to market and value added but limited to alliances with large farmers in case of rules framing.
- *Coexisting or renewal of the traditional cooperative model through MPC?*
- *Coexisting with the private formal and informal sector?*

THANKS FOR YOUR ATTENTION !

