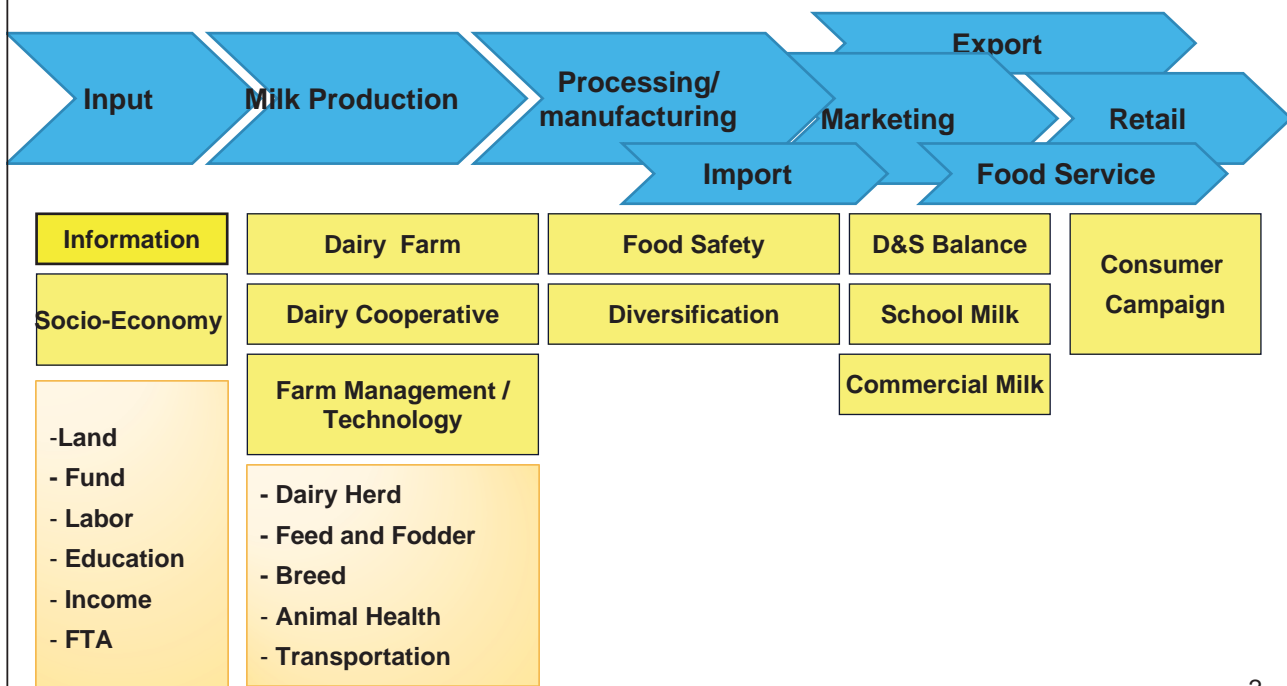


# Dairy Milk Village Economic

Thanee Pak-uthai  
Senior Economist  
Department of Livestock Development

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## Thailand Dairy Industry Structure



2

Input

## Dairy Development Under Free Trade Agreement

### Objective

To sustain dairy industry under global competition and FTA

### Implementation

1. Increasing dairy milk consumption
2. Enhancement fresh milk product for health food and quality food
3. Decreasing dairy farm production cost and dairy milk processing cost
4. Balancing of demand and supply of raw milk
5. Dairy products exported promotion
6. Enhancement of technical cooperation program
7. Research and Development on dairy industry
8. Enhancement and capacity building for farmers and farmer's organization

3

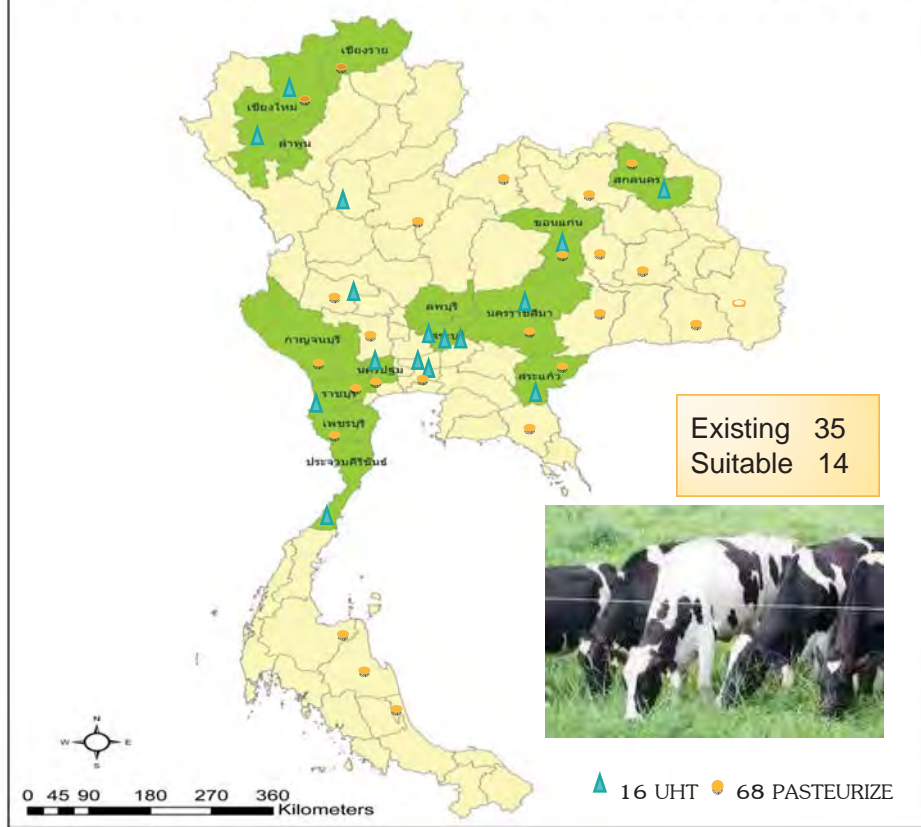
Milk Production

## Dairy Farm

Year	Farmer	Milking Cow	Dry Cow	Heifer	Baby	Total	Average Raw Milk (1,000 ton/year)	Average Raw Milk (ton/day)
2008	19,863	216,303	60,626	96,660	135,242	508,831	857,219.66	2,348.55
2009	19,452	218,940	59,665	99,833	129,903	508,342	882,931.35	2,418.99
2010	20,105	229,197	65,096	114,771	124,425	533,489	948,507.25	2,598.65
2011	21,446	244,854	71,869	116,816	131,868	565,408	1,022,865.05	2,802.37
2012	20,815	255,011	70,153	121,106	134,604	580,874	1,118,746.17	3,065.06

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# Dairy Cow Zoning



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Milk Production

## Dairy Cooperative



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# Raw Milk Price

14.30 TWD/kg  
 16.10 TWD/kg  
 17.33 TWD/kg  
 17.21 TWD/kg  
 18.40 TWD/kg

Farm Gate Price



MCC



Cooperative

1.38-1.47 TWD/kg

13.94/15.33/16.17 TWD/kg  
 16.17/20.07 TWD/kg  
 20.07/18.40 TWD/kg  
 18.40/19.00 TWD/kg  
 19.00/20.07 TWD/kg

Factory Gate Price



1 Baht = 1.115 TWD

Milk Production

## Dairy Farm Management





Processing/  
manufacturing

## Food Safety

GAP (DLD)

GMP  
(DLD)

GMP  
(FAD)

Farm

MCC

Processing  
Plant

17,094 Farm

580,874 Cows

255,011 Milking  
Cows

105  
Cooperative

82 Company

3 Academic  
Institution

4°C

16 UHT

68 Pasteurize

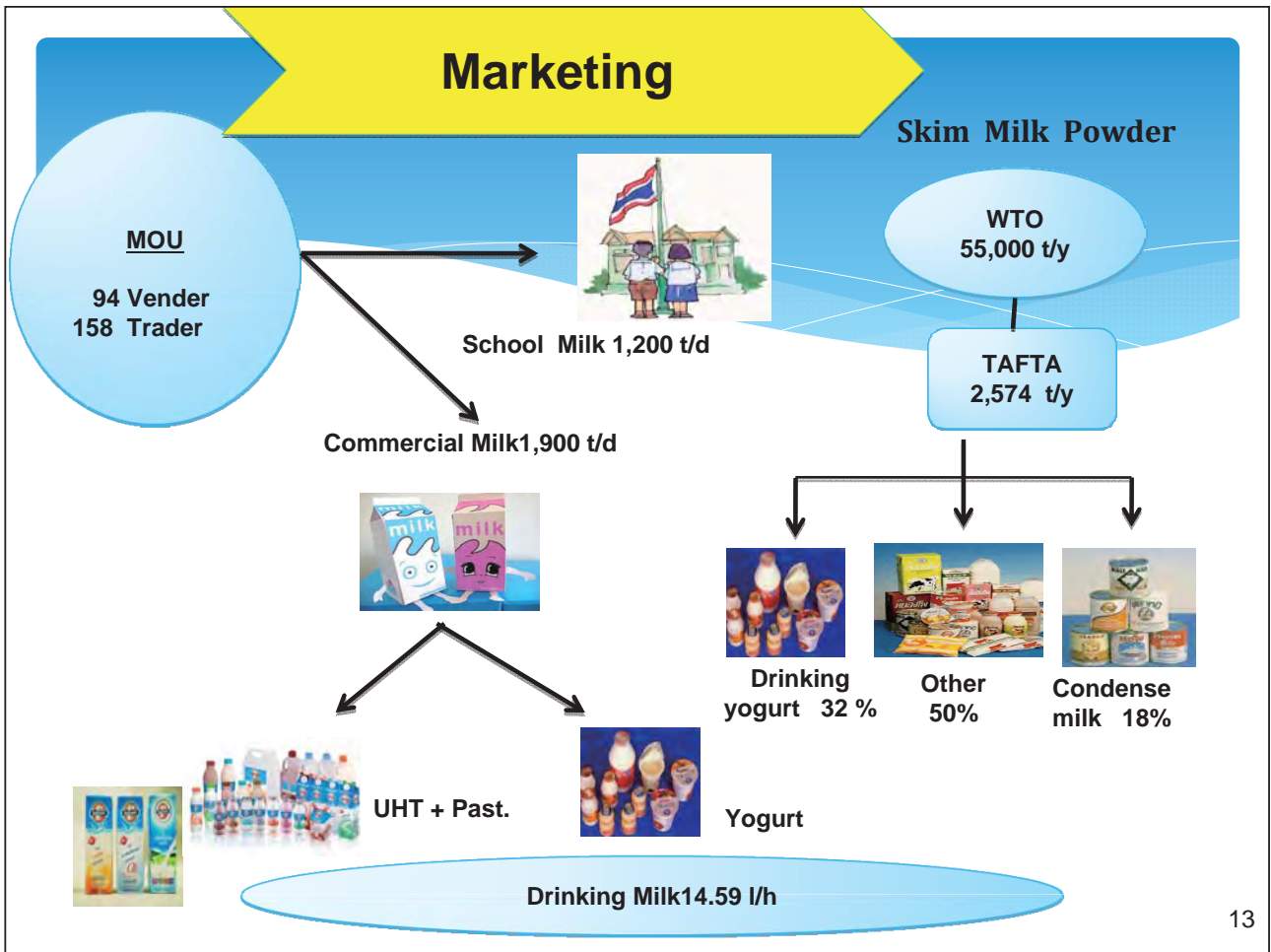
11

Processing/  
manufacturing

## Diversification



12



# Consumer Campaign

World Milk Day  
Thailand 2013  
1st June 2013  
Discovery Plaza  
Drinking Brings Power to AEC

14



15

## Young Generation Dairy Farmer



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# 2013 Double T Dairy Industry – Thailand & Taiwan

## DHI牛乳檢驗室

DHI 工作團隊：畜產試驗所新竹分所 (037-911693轉236) · 中華民國乳業協會 (022-9357809)







外感產品鑑定情形    產品溫度冷藏保存    紀錄收受資料建檔    先導測試    樣品預熱

新竹分所牛乳檢驗室在民國已通過財團法人全國認證基金會(CSA)乳產品測試領域試驗室。牛乳檢驗室對於生乳樣品檢測流程如下：

樣品接收時，即於「樣品接收區」卸載樣品箱，並取出生乳樣品置入「樣品清潔袋」內，再登錄樣品收受之資料。樣品檢測時，即依規定進行先導樣品檢測，以瞭解儀器對樣品的檢測值符合實際況況器具內，隨後將樣品放入40至41℃之預熱機內加溫10至15分鐘，溶解與均質牛奶脂肪以確認採樣具有代表性。

樣品收受 → 冷藏冰存 → 紀錄資料 → 先導測試 → 樣品預熱  
紀錄歸檔 ← 棄乳收集 ← 樣品清洗 ← 成分檢驗 ← 上線檢視

樣品上線檢驗前，檢測人員先檢視剔除異常樣品，隨後以先進的乳成分測定儀(MilkoScan 4500)利用紅外線分光法測定生乳脂肪、蛋白質、乳糖及尿素氮等乳成分，而體細胞數則採體細胞數分析儀(Fossmatic 5500B)之細胞流螢光電檢測法，以螢光劑染色塗布細胞核，由顯微技術計算數量，通常單機分測平均約每小時400個樣品，而機合併測約300個樣品。樣品檢驗後即清洗回收再利用，廢棄乳統一收集後另作環保處理。驗畢資料均進行數位儲存並傳輸至資料處理室作後續編碼，依TAP規定將本次檢驗結果與資料進行歸類存檔以備查詢審核。







樣品接收區卸載樣品    樣品清潔袋    儀器清洗回收再利用    檢驗人員檢測乳成分    檢驗設備異常樣品

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