

# Sugar cane typical farm in Vietnam

## *Global Forum*

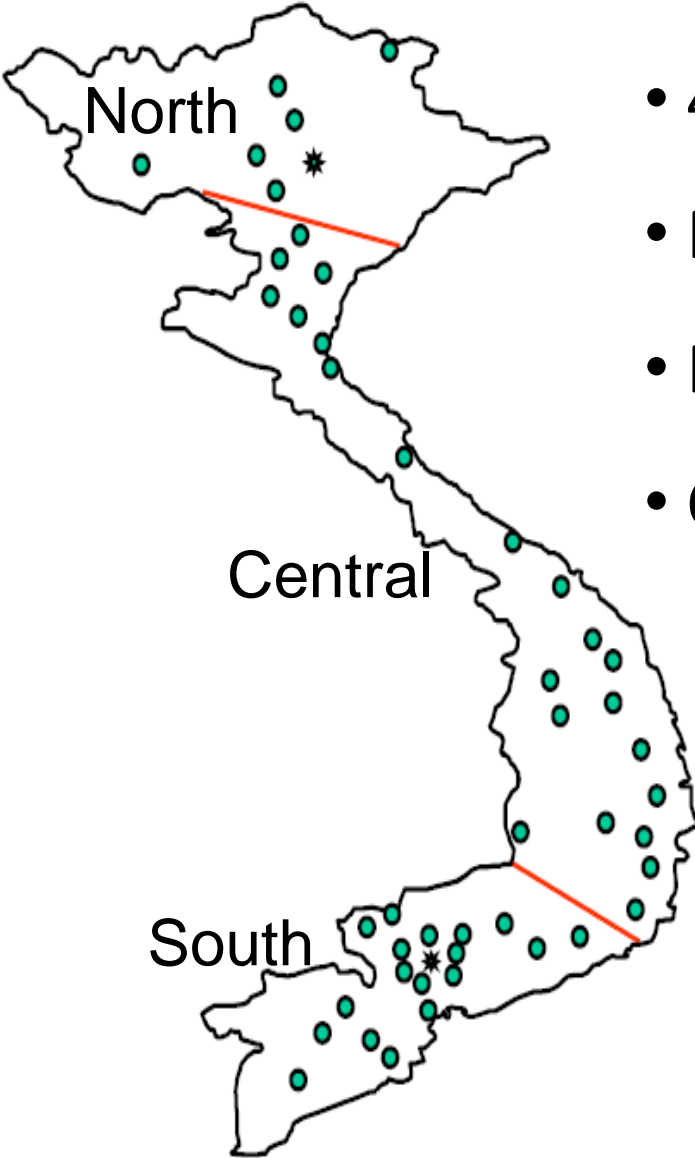
Ngoc Luan Nguyen



# Overview

- Sugar cane production in Vietnam
- Typical farm in central highland region
- Farm economic analysis

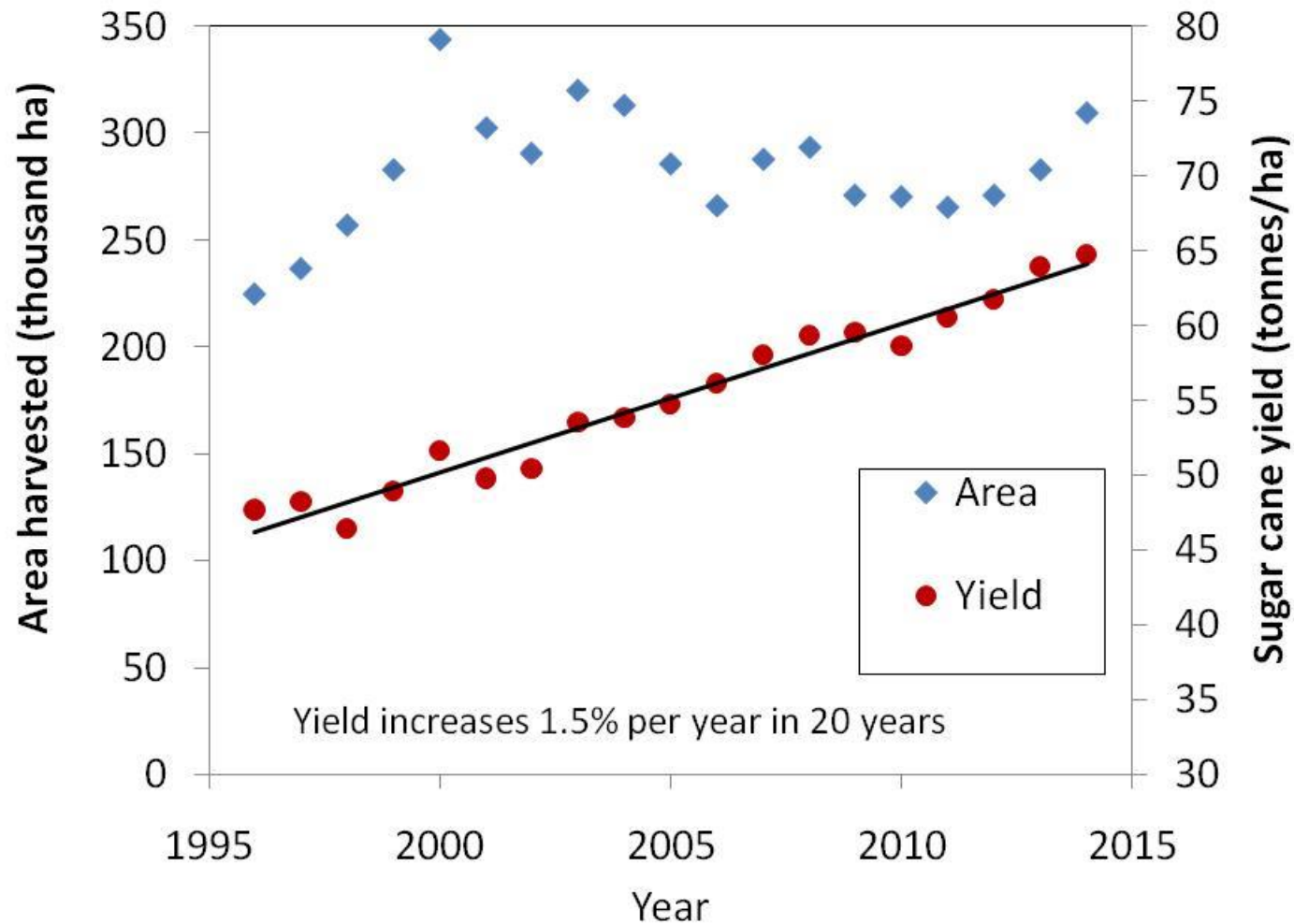
# Overview of sugar industry in VN



- 41 mills
- Mill capacity: 140000 t cane/day
- Production area: 300000 ha
- Cane growers: 337000 families



# Development of acreage & yield



Data source: MARD



# Location of typical farm in central highland



An Khê county, Gia Lai province

Total cane area: 10000 ha

Farm size: 2 ha – 20 ha, fragmented

Plot size: 0,2 ha – 3 ha

hilly region, sandy loam soil

Rainy season: Nov. – Apr. (1800 mm/a)



# Cropping system: sugar cane - cassava

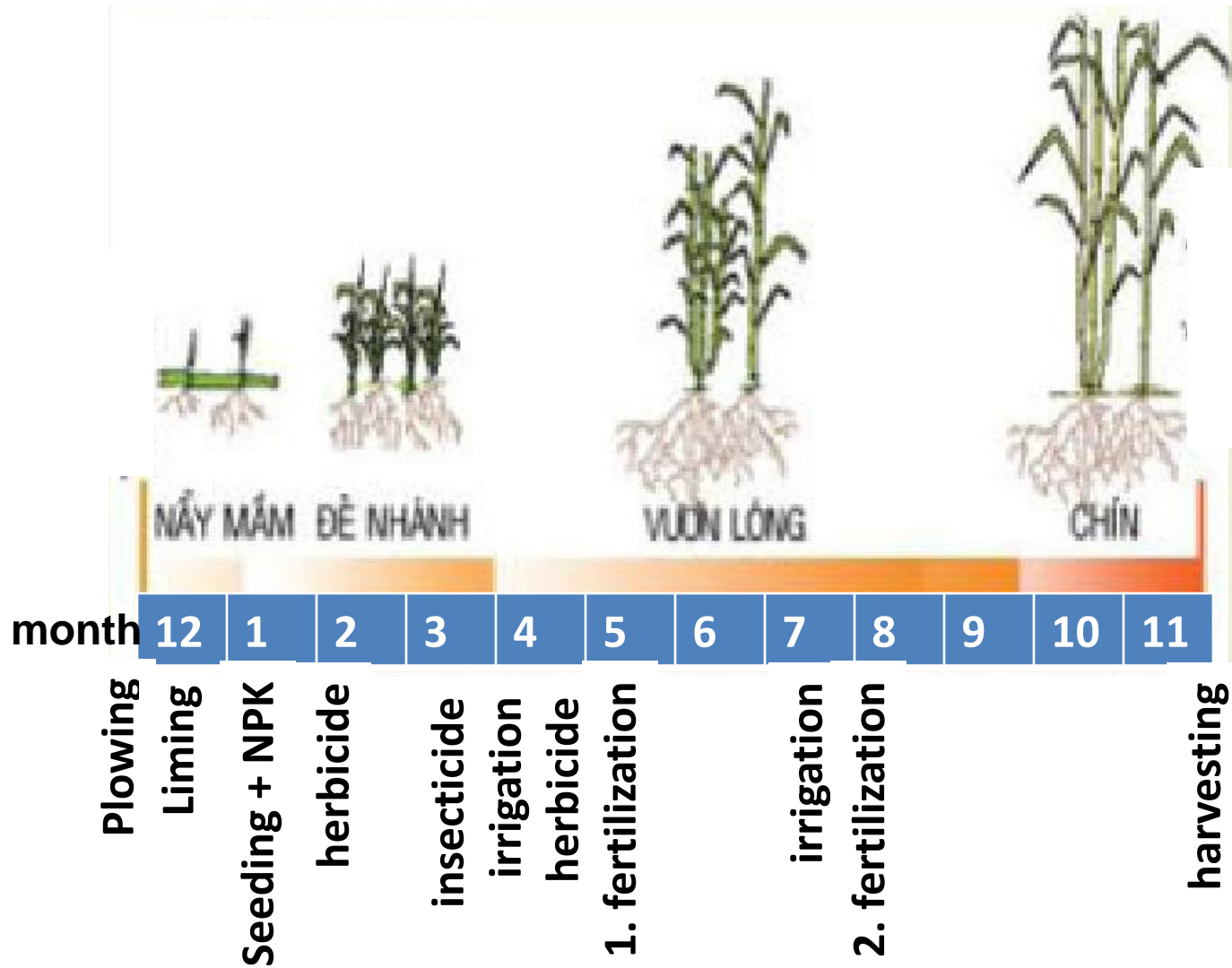
Rotation cycle: 5 years

Sugar cane: 4 years

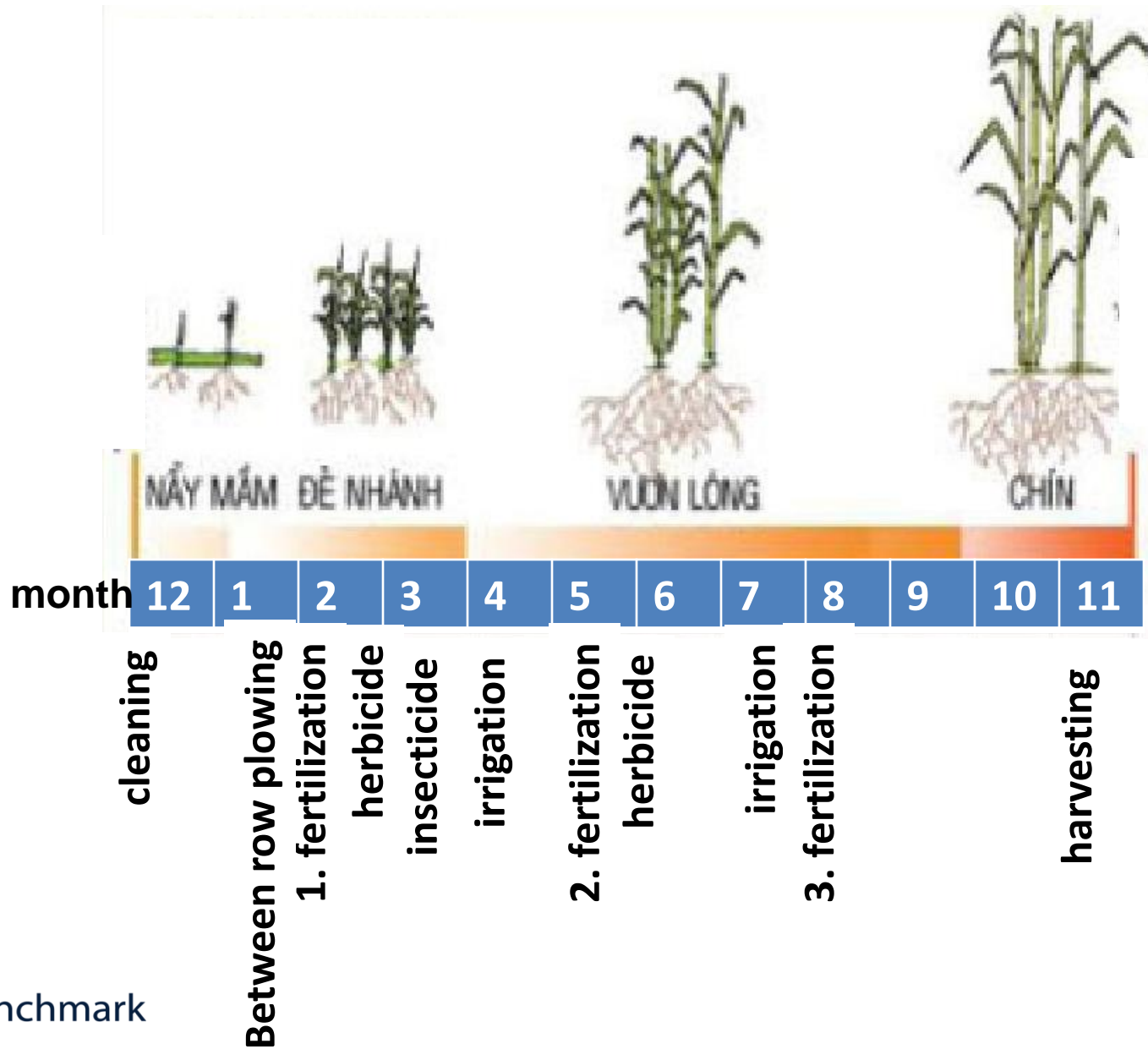
Cassava: 1 year



# Establishment year



# Ratoon 1, 2, 3





# Land preparation + seeding



Deep discing  
25 cm – 35 cm



Liming  
1 t – 2 t/ha



Cane sludge  
20 t – 30 t/ha



Dics-harrow  
2-passes

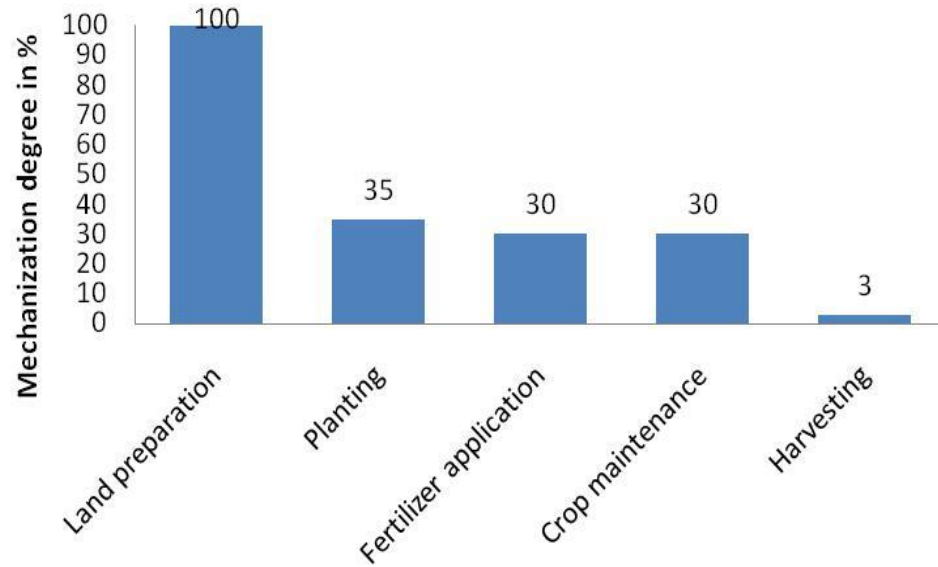
Seed quantity: 10 t cane /ha

Dual row 0,4 m – 1,2 m (1,4 m)

Single row 1 m x 1 m



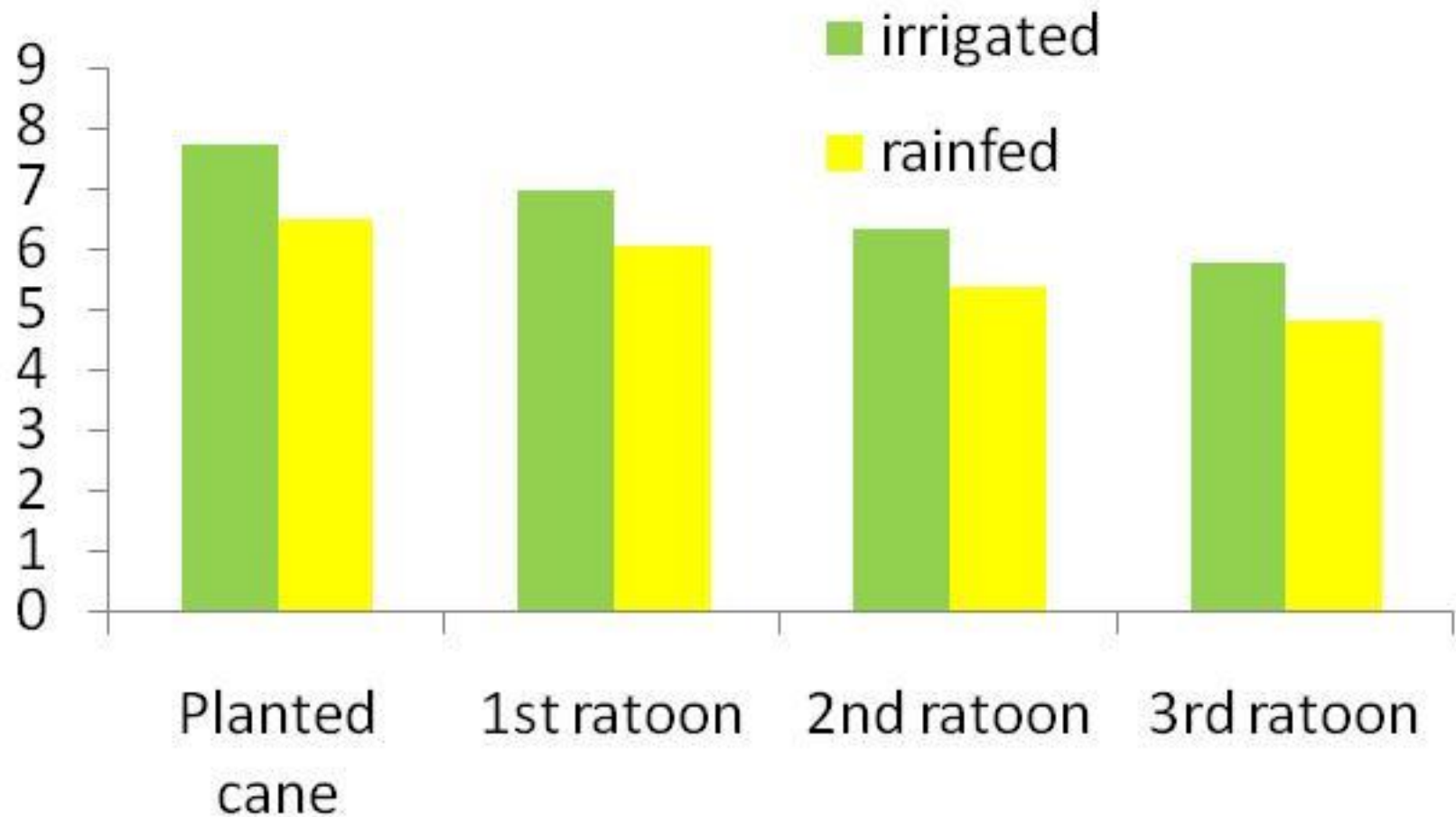
# Mechanization



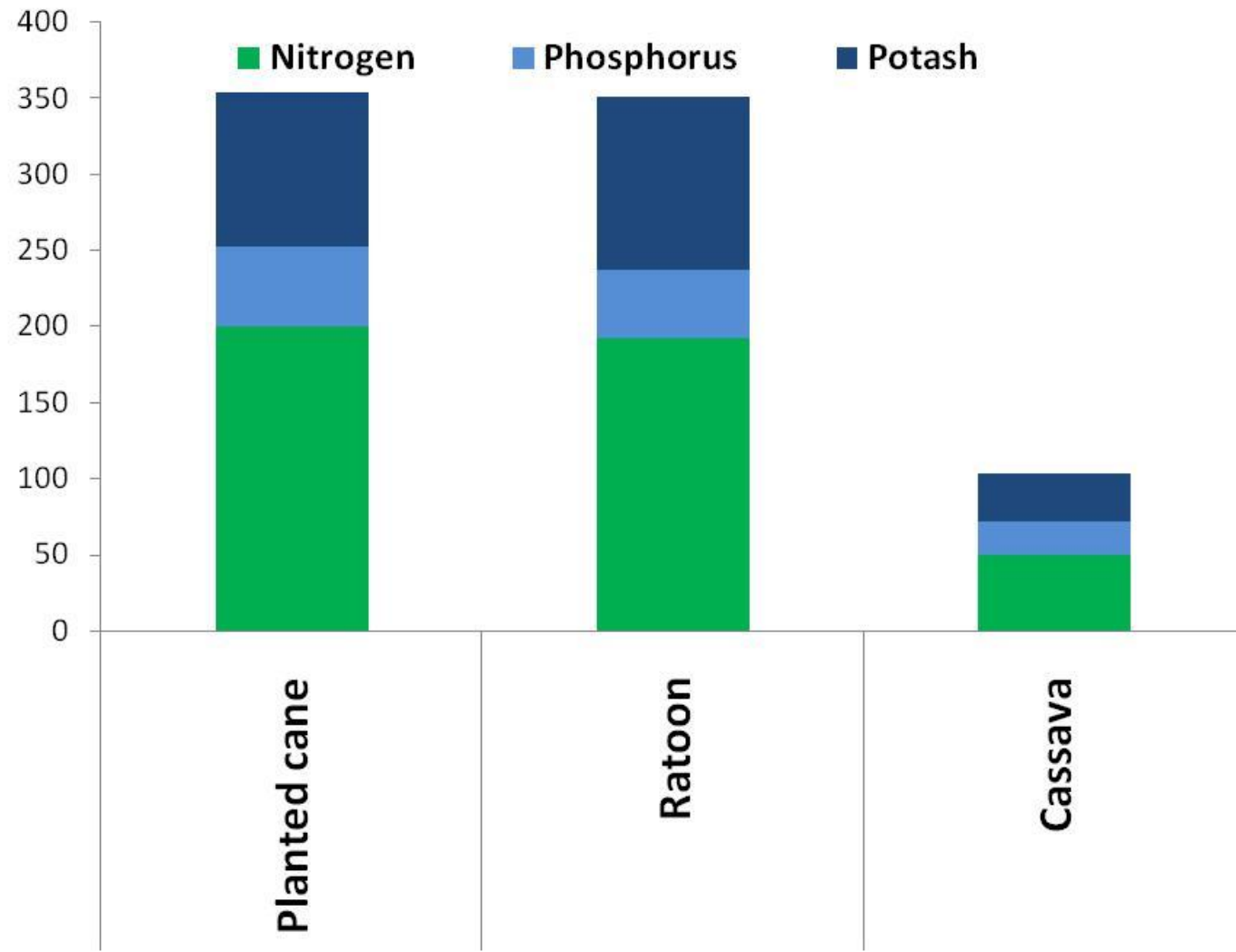
Harvest + transport account  
for 35% - 50% of total cost



# Sugar yield (t/ha) in 2014

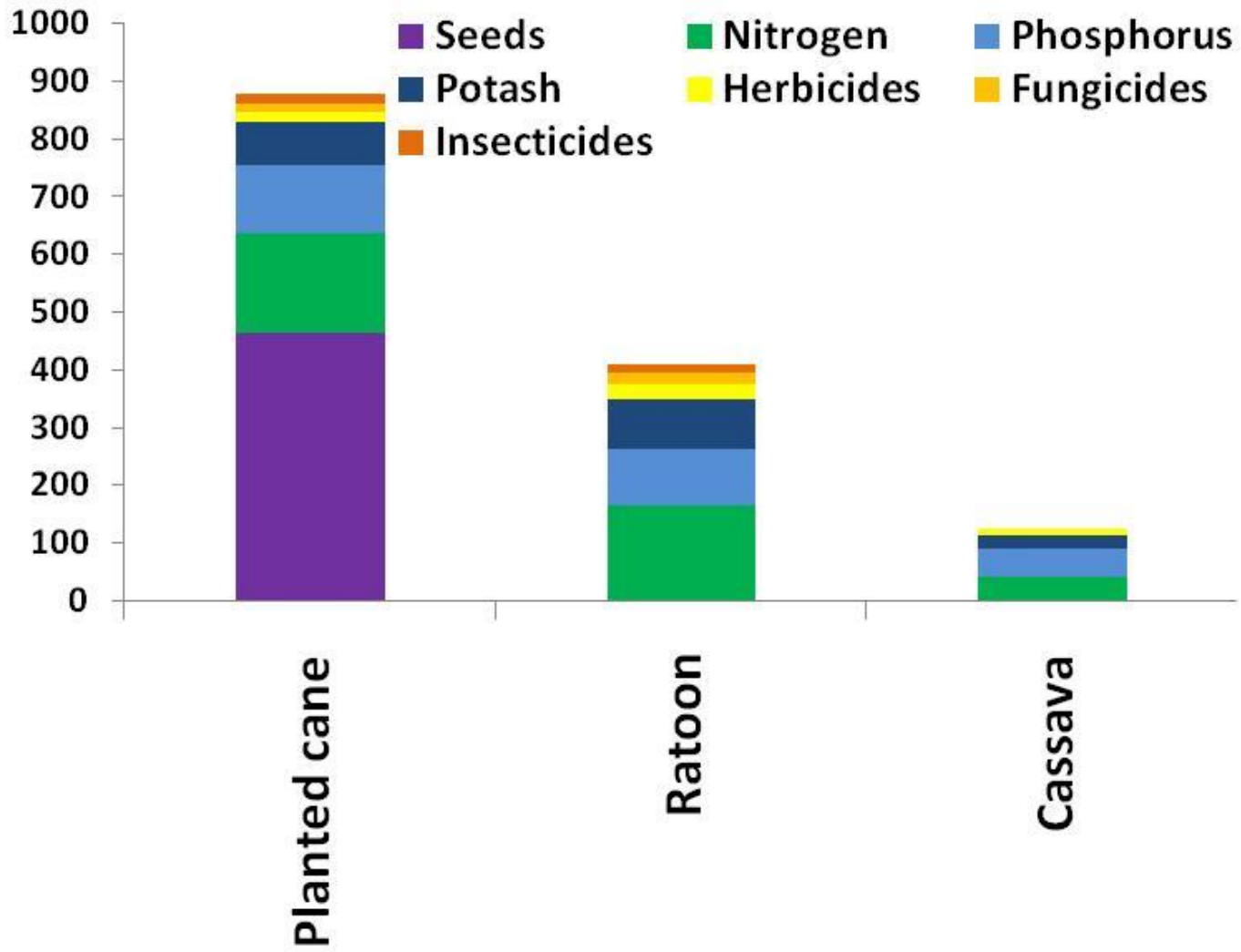


# Fertilizer application (kg/ha)

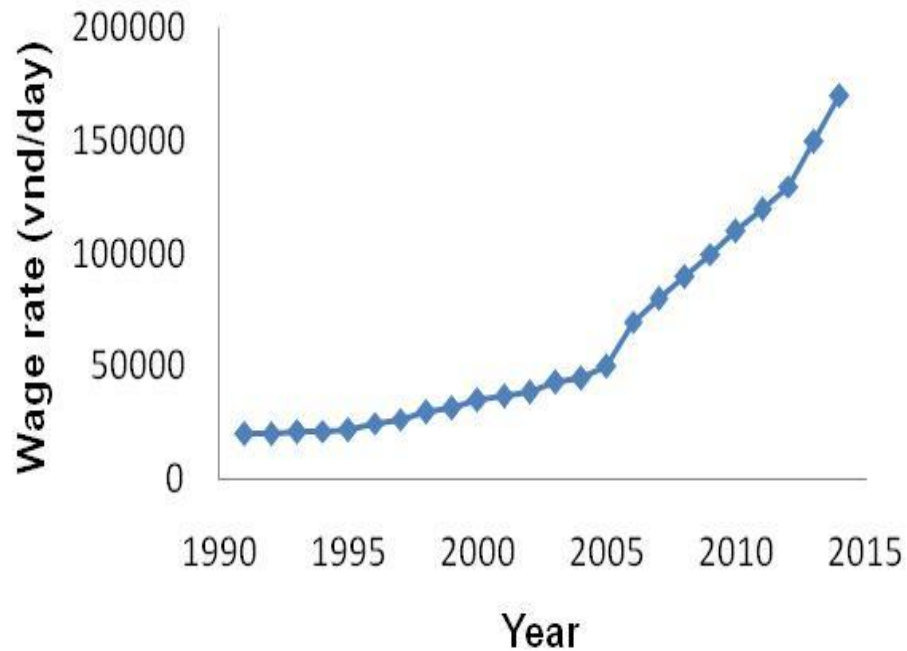




# Input cost (USD/ha) in 2014

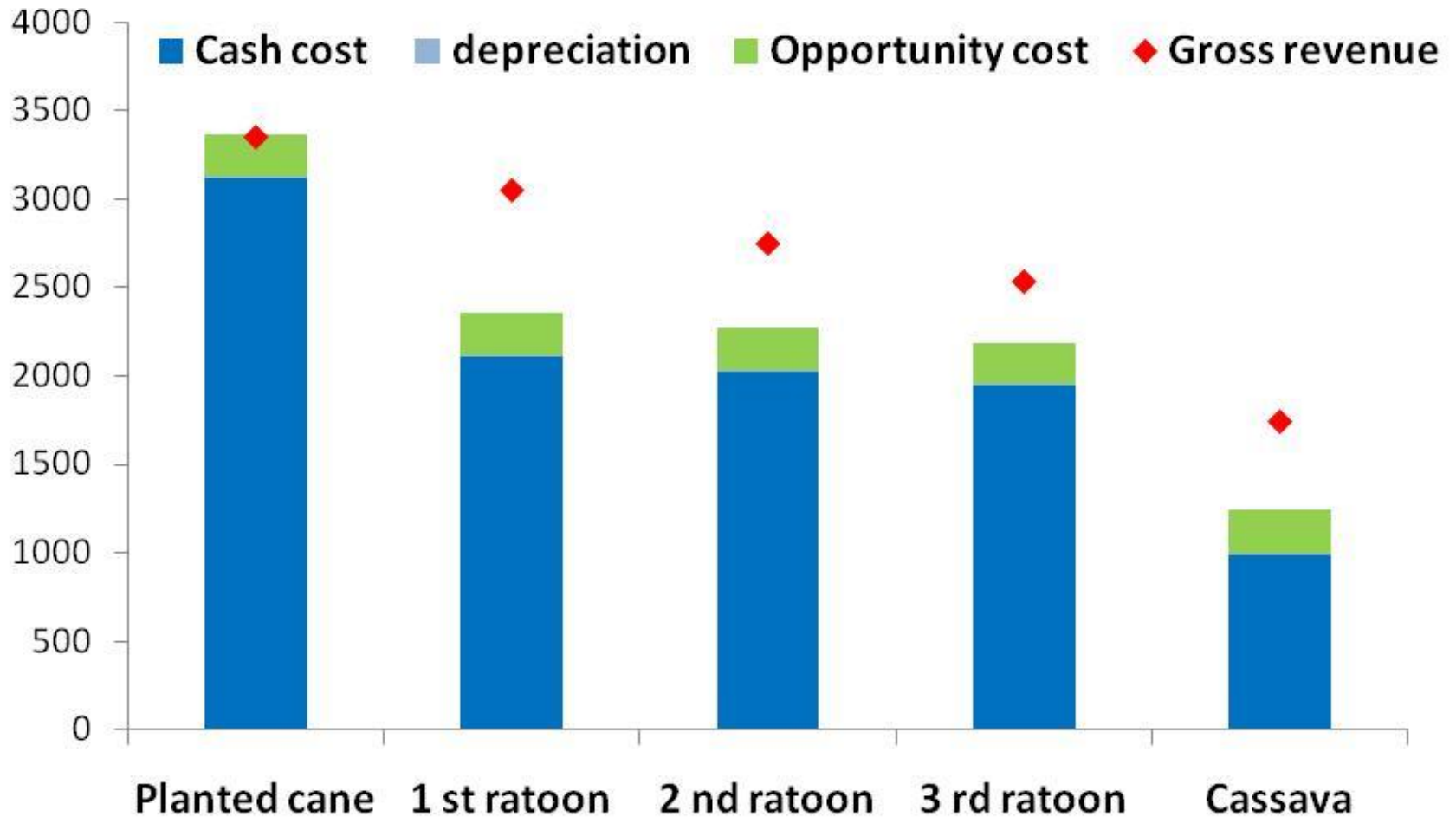


# What about labor ?



Labor cost at harvest 12 – 18 USD/t cane

# Total cost & gross revenue (USD/ha)



# Challenges

- High production cost
- Land consolidation →
- Weather conditions
- Contractual agreements  
between farmers and millers





# Questions & Discussion

