



# **FADN DATA IN ECONOMIC ANALYSIS OF CROATIAN FARMS**

**23rd Pacioli workshop, Belgrade**

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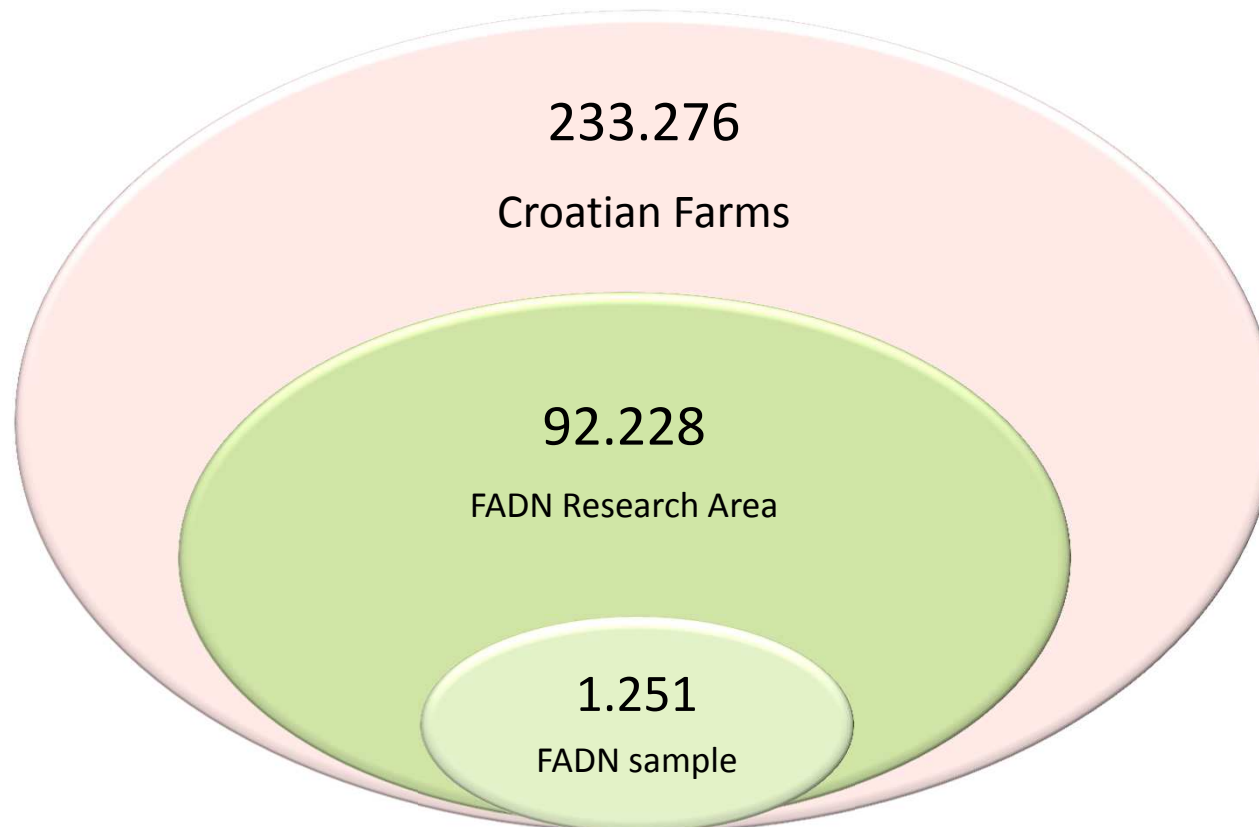
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# Content



# Introduction

- Lack of accountancy data – farms & business books
- Croatian access to the EU - FADN obligation



# FADN sample across the EU

| <i>Member State</i> | <i>FADN farms*</i> | <i>FADN Sample</i> |
|---------------------|--------------------|--------------------|
| Austria             | 93070              | 2000               |
| Bulgaria            | 146344             | 2202               |
| <b>CROATIA</b>      | <b>92228</b>       | <b>1251</b>        |
| Czech Republic      | 15753              | 1417               |
| Germany             | 207948             | 9043               |
| Hungary             | 94992              | 1900               |
| Italy               | 903072             | 11137              |
| Netherland          | 53640              | 1500               |
| Poland              | 738073             | 12100              |
| Romania             | 1552886            | 6000               |
| Slovakia            | 3554               | 523                |
| Slovenia            | 41323              | 908                |
| <b>EU-28</b>        | <b>5800117</b>     | <b>85441</b>       |

\* FADN farms - above  
4.000 € production  
value



# Research

- **Standard Results 2011-2013**
  - aggregate FADN research results
  - basis for development and implementation measures of CAP at the level of the EU member state

# Data for the year 2010

*(Eurostat Pocketbooks, Agriculture, forestry and fishery statistics)*

- 233 280 farms
- average utilized area 5.6 ha (EU average 14.2 ha)
- 50% of Croatian farms with less than 2 ha
- SO per farm 9 065 €
- 40% economic size class up to 2 000 €
- 23% mixed crop and livestock type
- 6% with additional activity on the farm
- less than 6% of GDP from agricultural production



# FADN sample for the researched period



2011.

754 farms



2012.

1010 farms



2013.

1276 farms



Representing approximately:

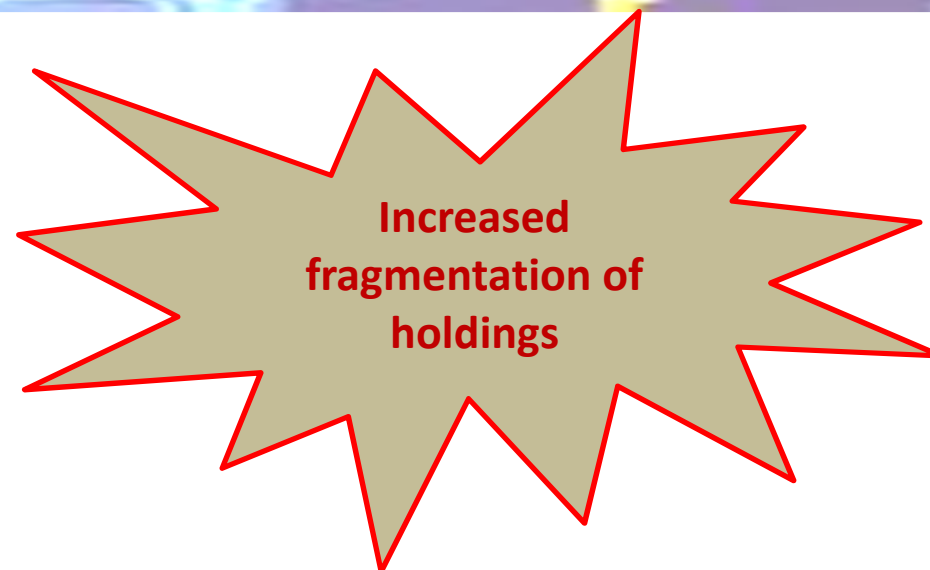
85% of the used agricultural land

89% of the value of agricultural production

86% of the livestock units



# Utilized Agricultural Area, ha



|      | Crops | Vegetable and flower | Permanent crops | Dairy cattle | Cattle, sheep, goats | Pigs and poultry | Mixed |
|------|-------|----------------------|-----------------|--------------|----------------------|------------------|-------|
| 2011 | 34.5  | 2.1                  | 5.4             | 24.8         | 44.2                 | 9.0              | 16.2  |
| 2012 | 32.3  | 2.0                  | 7.2             | 25.2         | 25.6                 | 9.6              | 12.4  |
| 2013 | 30.9  | 2.4                  | 5.3             | 22.3         | 23.4                 | 11.7             | 15.3  |



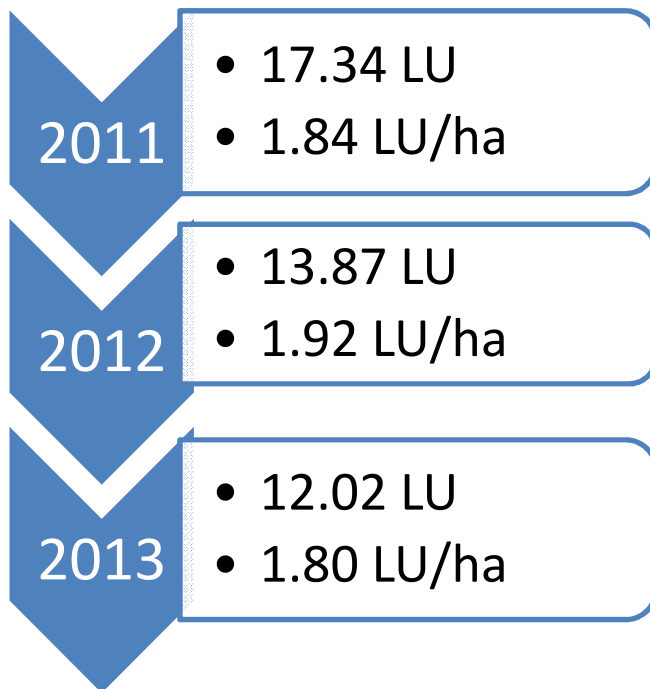
Largest at crop farms and cattle breeding farms

Smallest at vegetable and flower producing farms

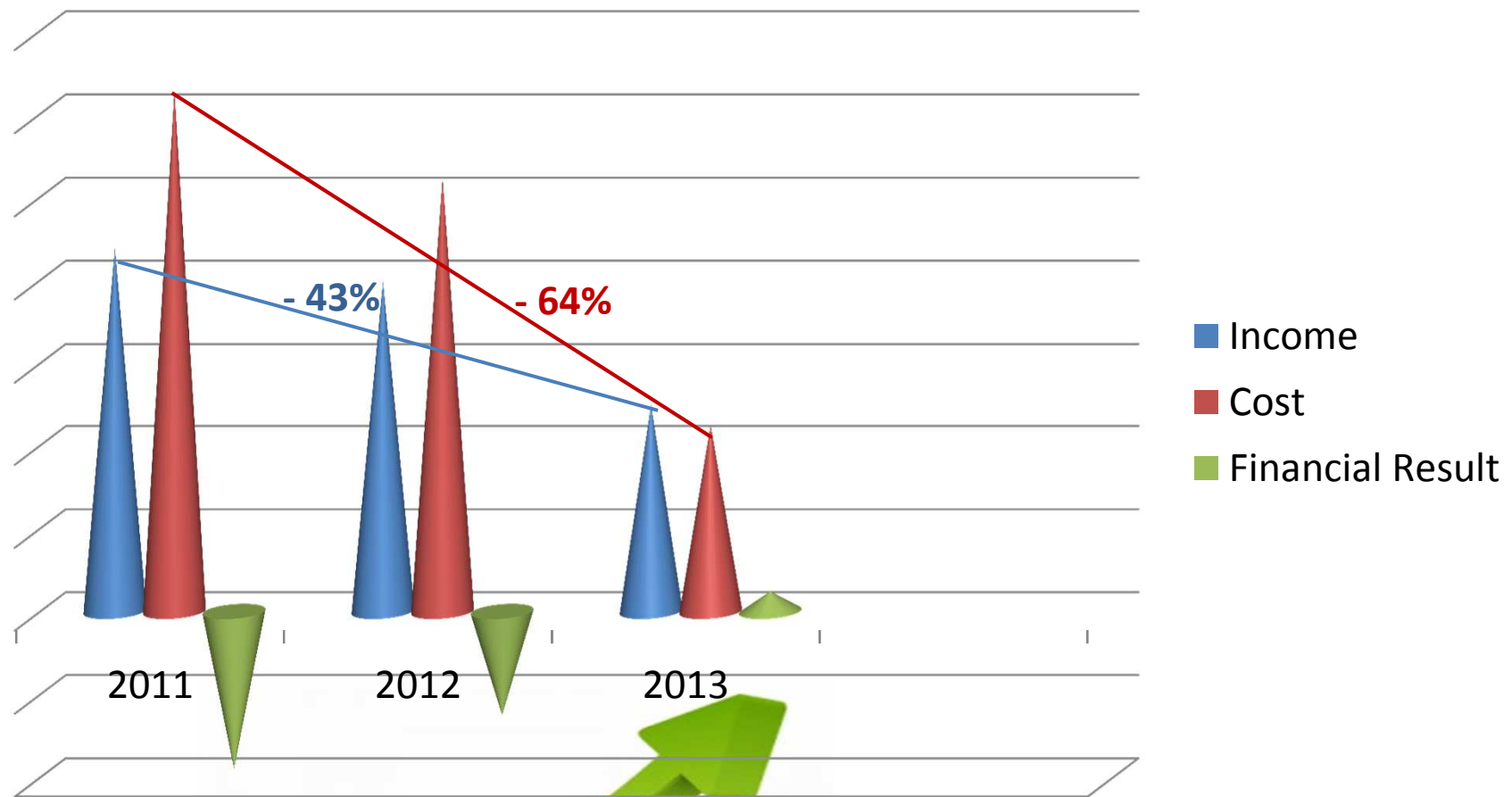




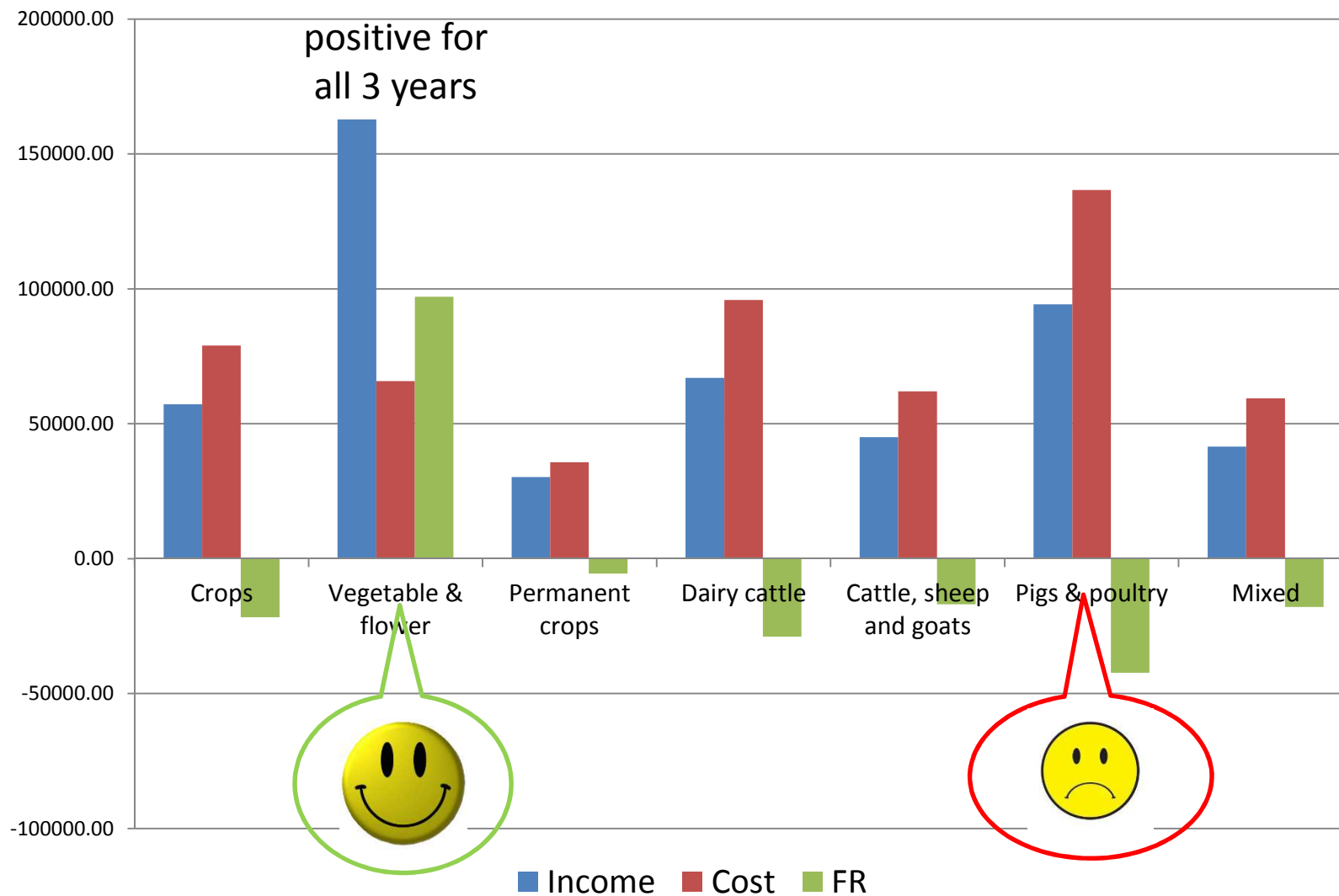
# Total Livestock Units



# Financial Results on Croatian farms



# Financial data by farming types



2011

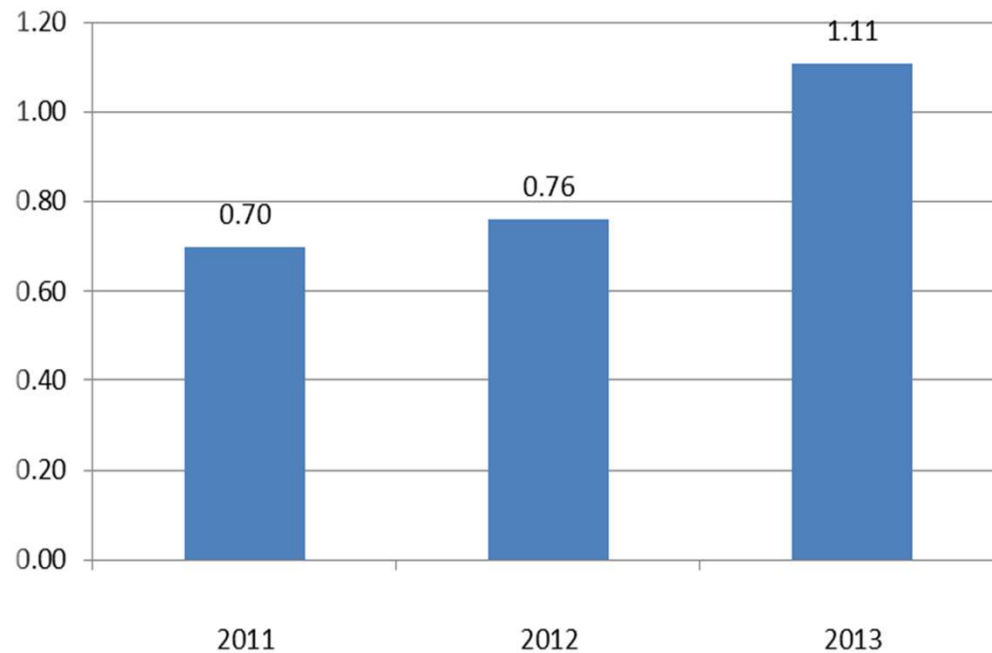




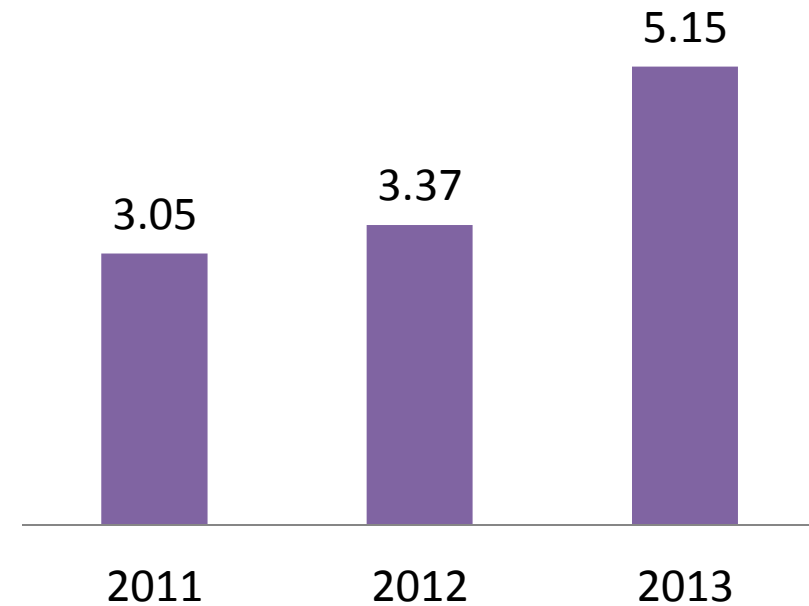
- Return on assets (**ROA**) shows that the highest profit per unit of assets is realized at the farm type *vegetable and floriculture* (**0,41; 0,33**)
- The largest **credit indebtedness** has a *vegetable and floriculture* type – capital intensive, while min credit load is at cattle, sheep, goat and mixed farming

# Efficiency and productivity

## Efficiency coefficient

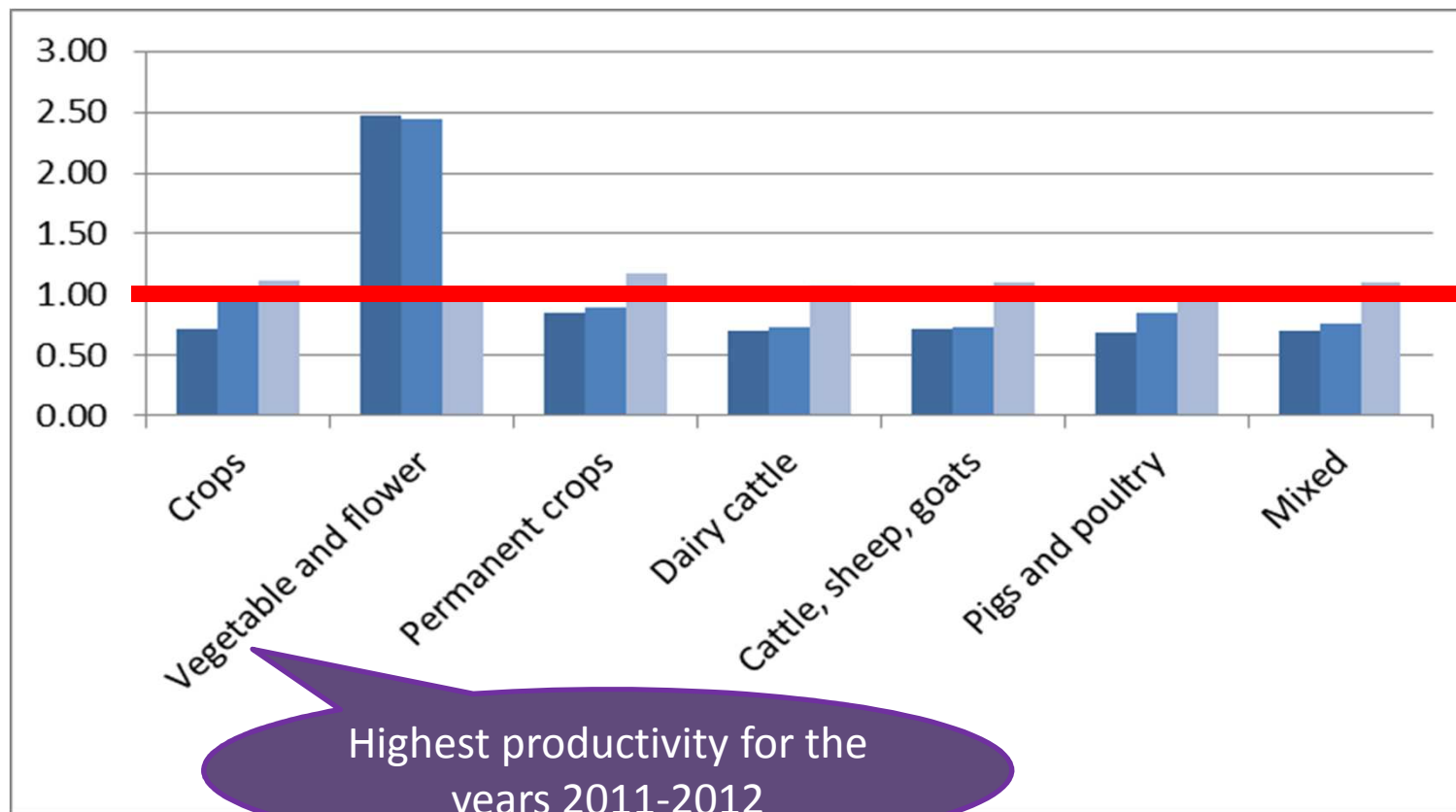


## Productivity, €/hour



Above the efficiency level

# Efficiency and productivity by farming types



Average productivity ranges from **3.16 €/hour** (cattle, sheep and goat farms) to **18.42 €/hour** (vegetable & flower farming)



# Conclusion

- more than 50% of Croatian farms have < 2 ha of arable land (average 5.6 ha)
- declining trend of UAA (-2.8%) and LU (-16.65%)
- in the years 2011-2012 farms were below the efficiency level , but starts to recover in 2013 (+27,3%)
- productivity trend is positive for all 3 years (+31,65%)



**THANK YOU!**



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