

**BOLOGNA - April 13th, 2015**

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# Emilia - Romagna Region



Population in region : 3,929,000  
Total regional area : 22,123 km<sup>2</sup>  
Population density: 178 people/km<sup>2</sup>

Nine provinces

About 25% of the total  
PPP sell in Italy are sell in  
our Emilia-Romagna Region

SAU – ha

1.000.000

Agricultural PLV

Euro 4.000.000.000

# **Phytosanitary Service Mission**

**Prevent and reduce the  
damages caused by plant  
adversities in  
a sustainable system  
where  
we want valorize the regional  
agricultural products**

# ACTIVITY AND STRATEGIES OF SERVICE

➤ **Implement programs of prophylaxis against harmful pests with high phytosanitary risk**

➤ **Attuare interventi di profilassi nei confronti di organismi ad elevato rischio fitosanitario**

➤ **Define innovative and compatible strategies of plant defense with the protection of the environment and high quality of agricultural production** Definire strategie di difesa delle piante innovative e compatibili con la tutela dell'ambiente e produzioni agricole e di qualità

➤ **Promote the production of high-quality of propagating material**

**Promuovere la produzione di materiale di moltiplicazione regionale di alta qualità**

➤ **Contribute to the definition of phytosanitary standards (regional, national and Community)**

➤ **Concorrere alla definizione di norme fitosanitarie di valenza regionale, nazionale e comunitario**

➤ **Provide plant health specialist support**

➤ **Fornire supporti specialistici in materia fitosanitaria**

# Phytosanitary Service Organization

**Director**

**76 employees**

## **Official Phytosanitary Control**

- Application of regulations (EU, national and regional)
- Land monitoring
- Implementation decrees mandatory fight
- Inspection and certification in import, export and transit
- Authorizations and accreditations (Passports plants, RUP Production and trade of plants)
- Phytosanitary certification of propagating material

## **Supports**

**Testing laboratories**

**Plant Protection products**

**Communication**

**Secretary**

## **Crop protection**

- Preparation plant protection guidelines
- Coordinating programs for IPM and organic agricultural
- Forecasting and warning of plant health risks
- Plant protection in urban areas and forest
- Experiments and studies in the field of plant health

# Components of IPM system

## Voluntary IPM

Research and experimentation



Regulations for integrated production



Relations with the market

**IPM system**

Relations with industry



Technical support to farmers



Support systems for advisors



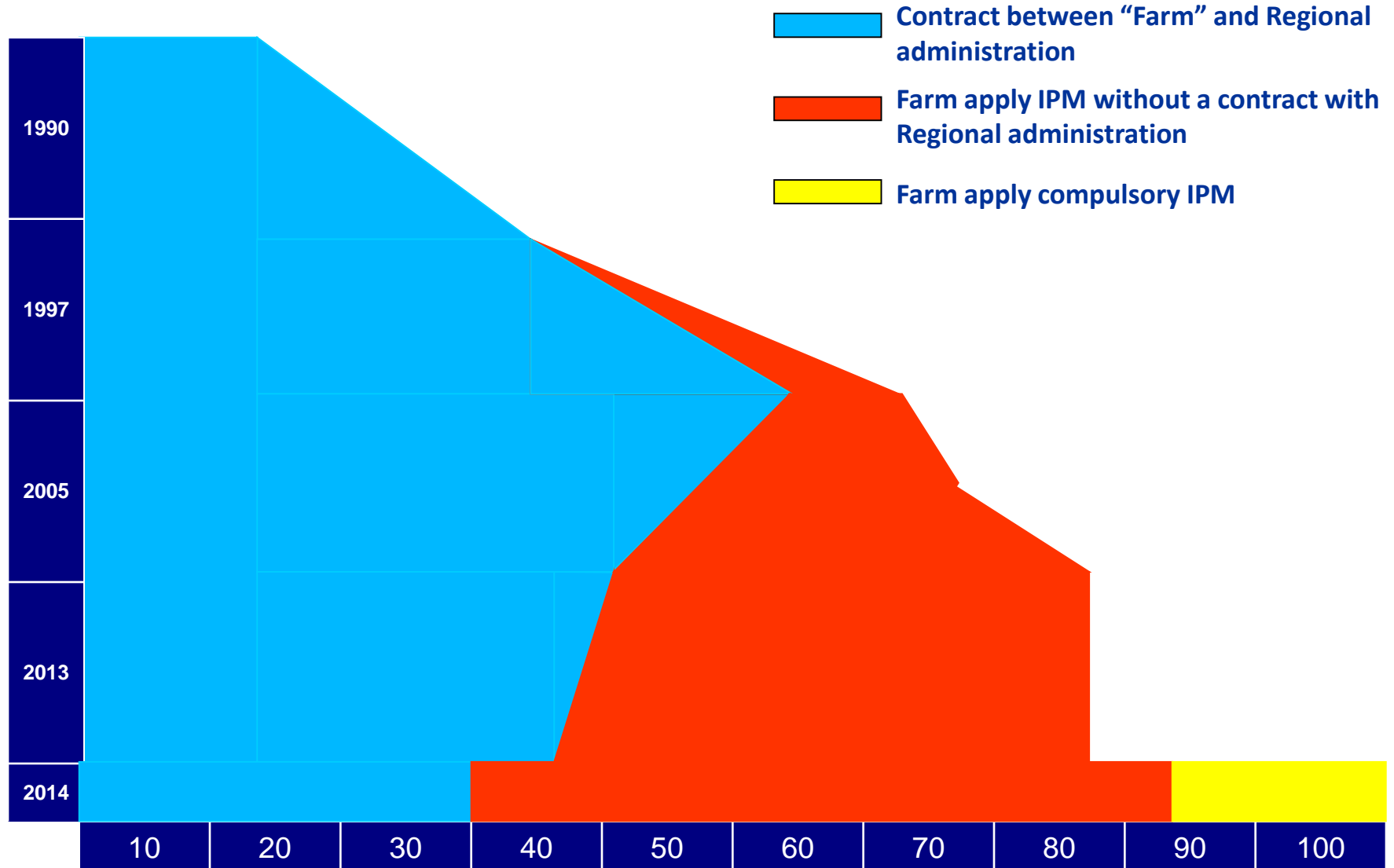
Coordination of technical support



# IMP surface in Emilia-Romagna Region

## Fruit and vegetable

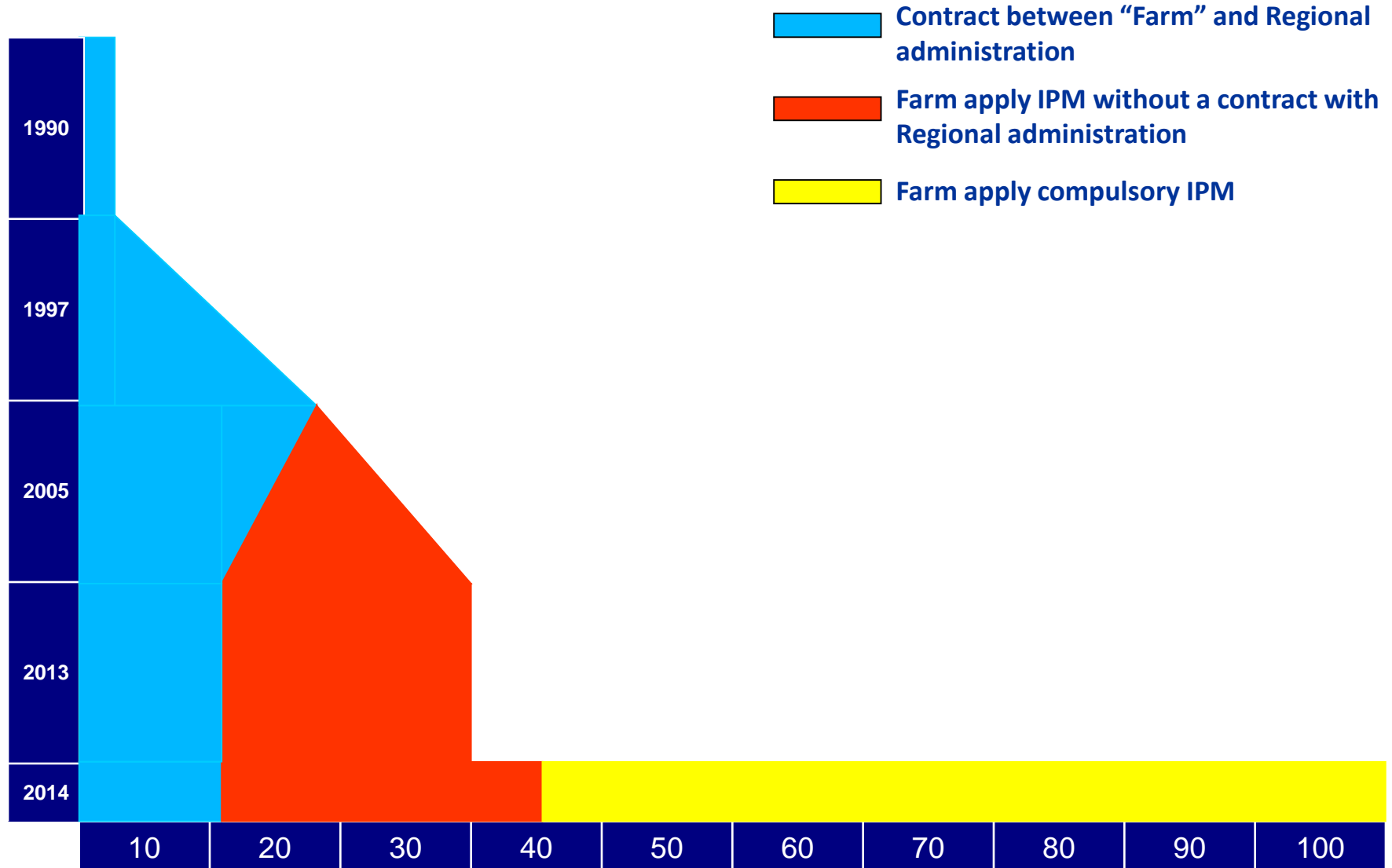
## Estimation



# IMP surface in Emilia-Romagna Region

Extensive crops – cereal etc.

Estimation

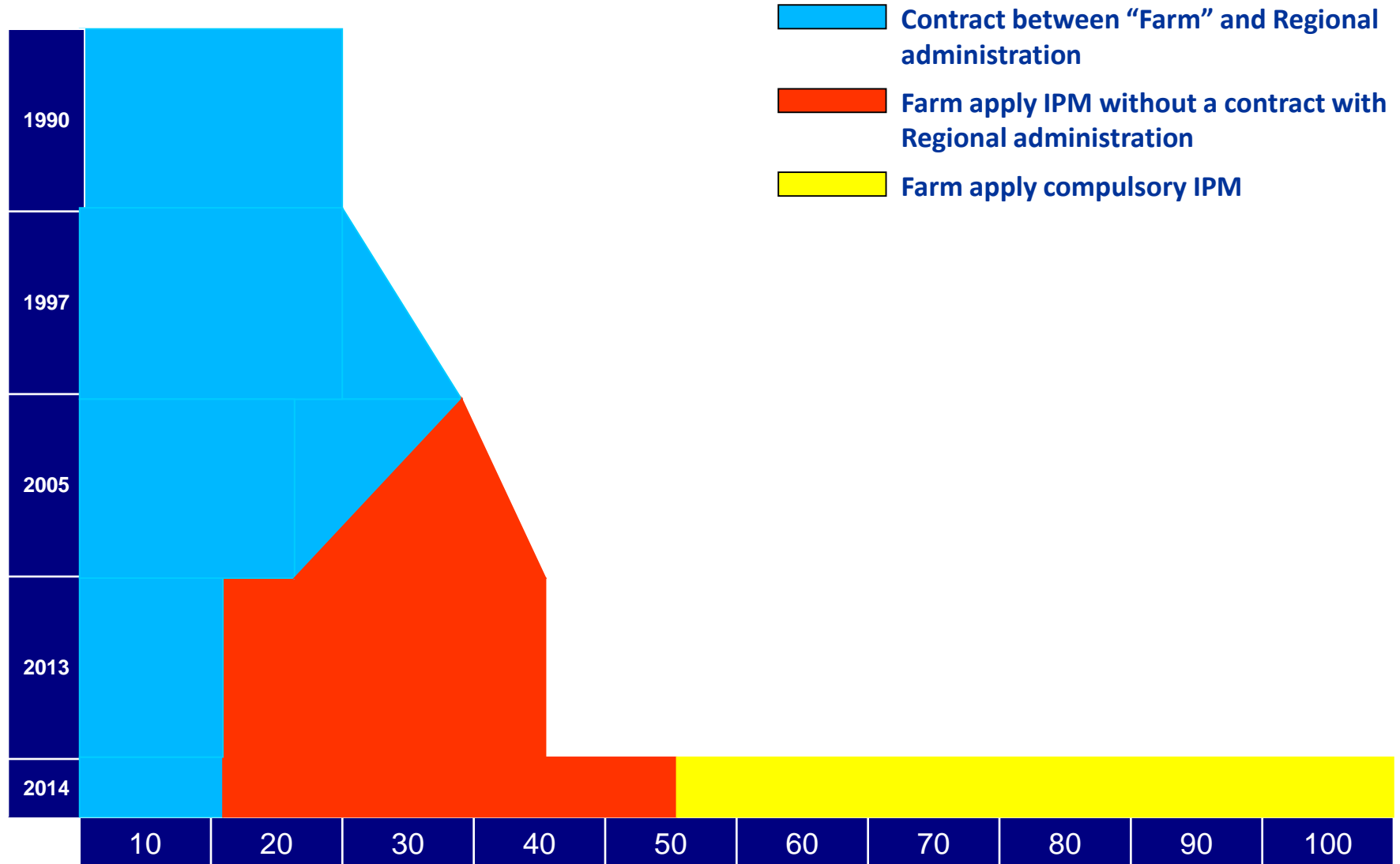




# IMP surface in Emilia-Romagna Region

## Grape

## Estimation



## Pesticide residuals

- Normally who applies IPM reduces:
  - total residuals
  - residual of singol pesticide
- any problem regarding limitation MRL and ArFD
- It is possible to increase numbers of pesticides residual

## Pesticides

- According to the crop, 20-35% reduction in the amount used
- Improved impact on humans and the environment:
  - between 70 and 90% reduction in pesticides with high acute toxicity
  - between 40 and 95% reduction in pesticides with high chronic toxicity
- strict respect for residue limits

# IPM - Some results:

## Application of biological products

- Apple & pear (roughly 32,000 ha)
  - Spread of *Antochoris nemoralis*
  - roughly 35,000 doses/ha/year of granulosis virus for codling moth control
  - 800 ha treated with entomopathogenic nematodes for codling moth control
  - 6000 ha using mating disruption technique
  - Use of *Bacillus subtilis* based products
- Peach (roughly 30,000 ha)
  - 24,000 ha using mating disruption technique
- Other crops:
  - mating disruption largely used
  - beneficial insects largely used in field and greenhouse
  - *Bacillus thuringiensis*, *Bacillus subtilis*, *Trichoderma*, Azadiractin ecc. largely used