

# Sacurima – CA 16123

Safety Culture and Risk Management in Agriculture

Cláudia Cordovil – Lisbon 3 September 2021

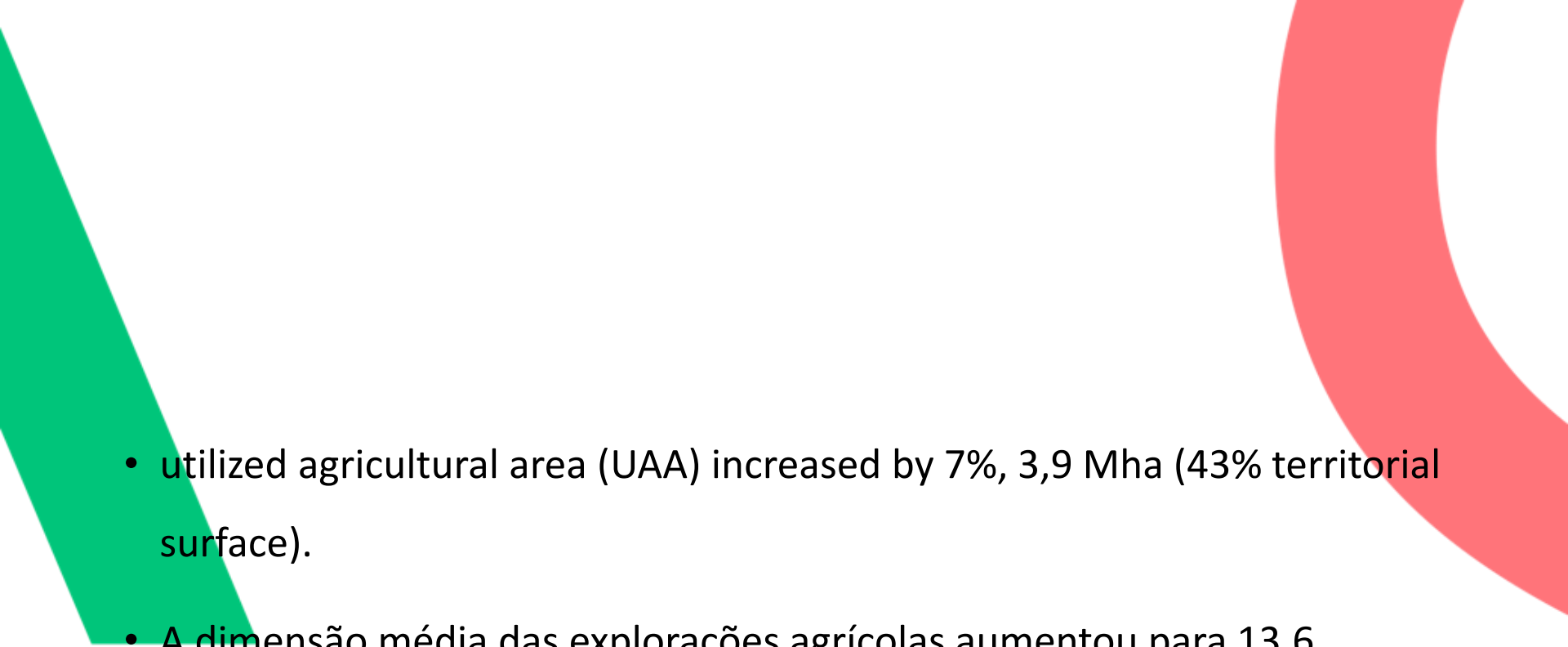

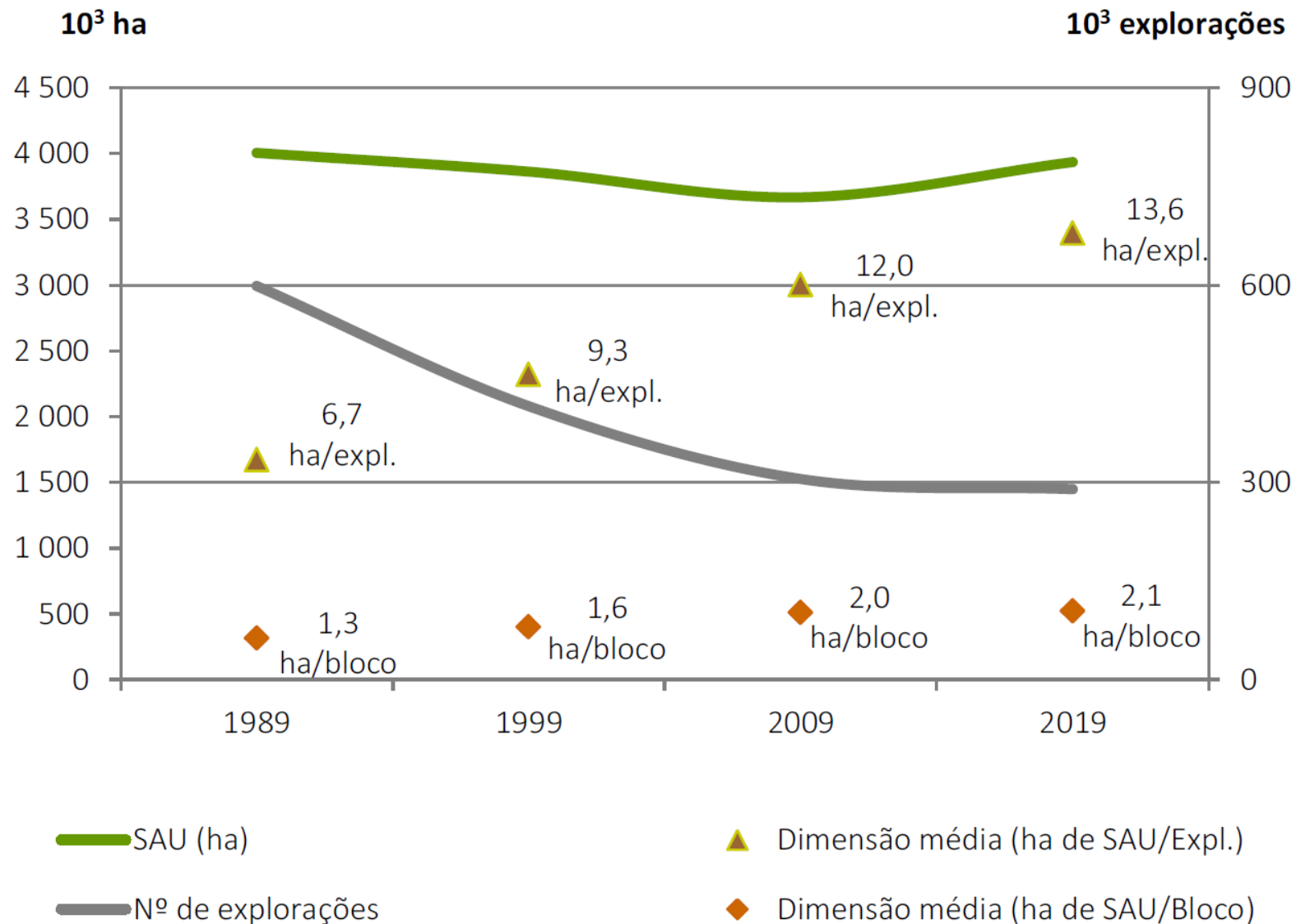
- 
- utilized agricultural area (UAA) increased by 7%, 3,9 Mha (43% territorial surface).
  - A dimensão média das explorações agrícolas aumentou para 13,6 hectares de SAU por exploração (+1,6 hectares de SAU do que em 2009).
  - The average size of agricultural holdings increased to 13.6 hectares of UAA / holding (+1.6 hectares of UAA than in 2009).
- 

Figura 1. Número de explorações e SAU (1989-2019)



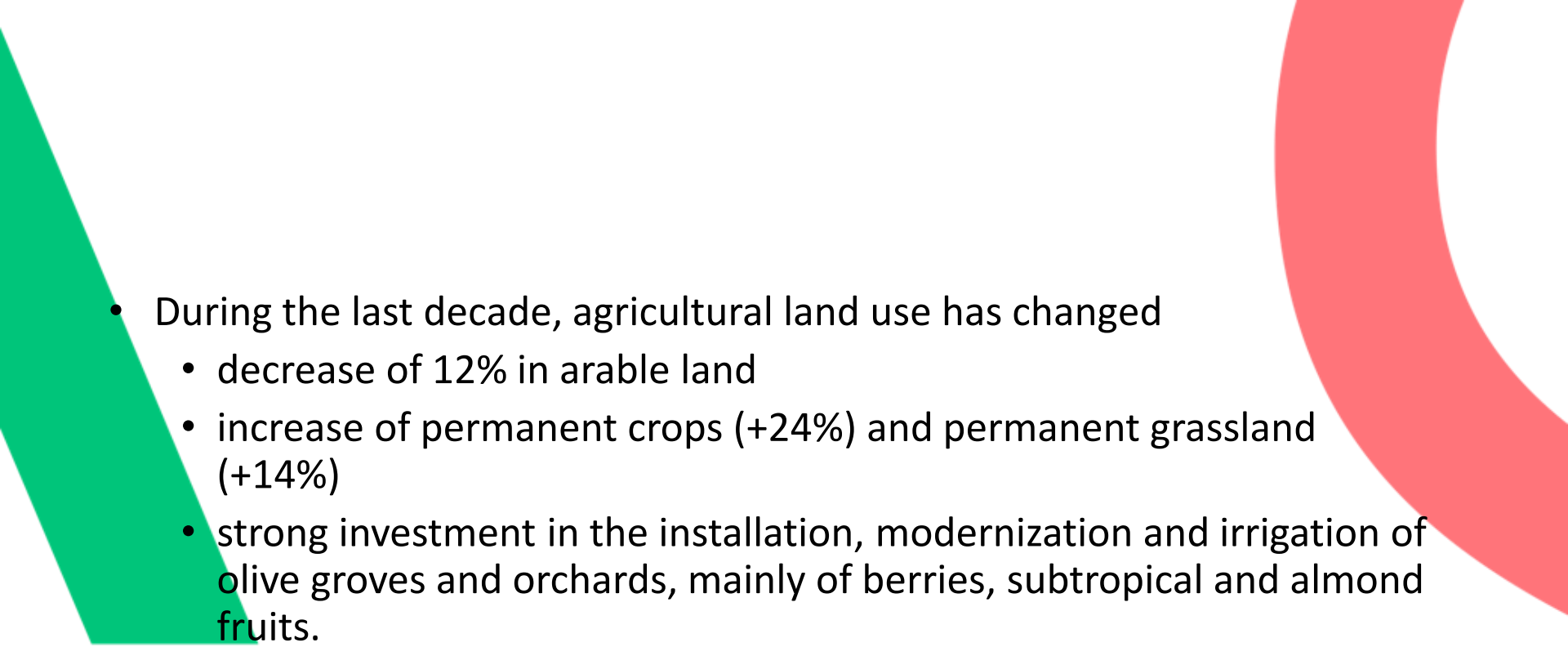

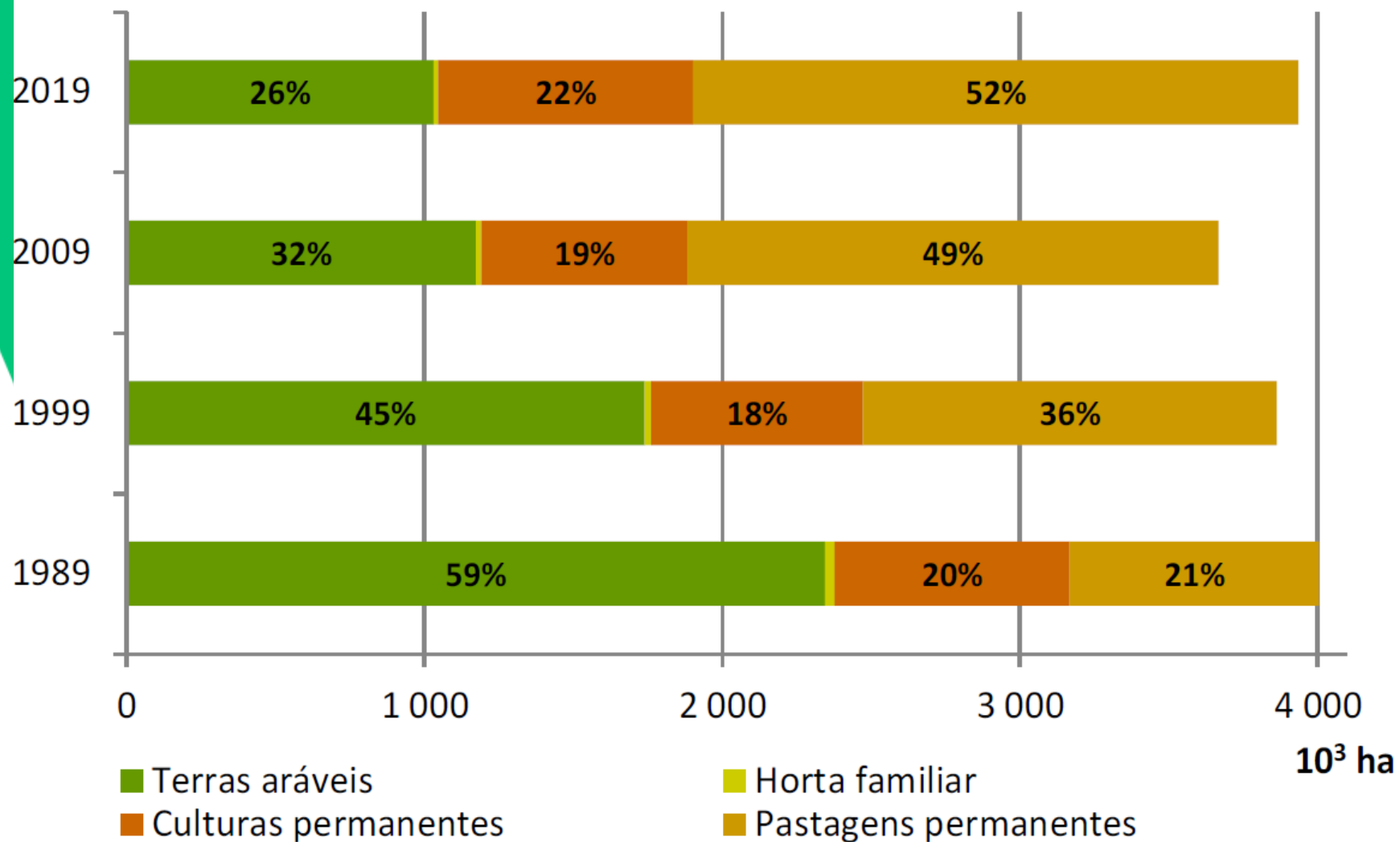
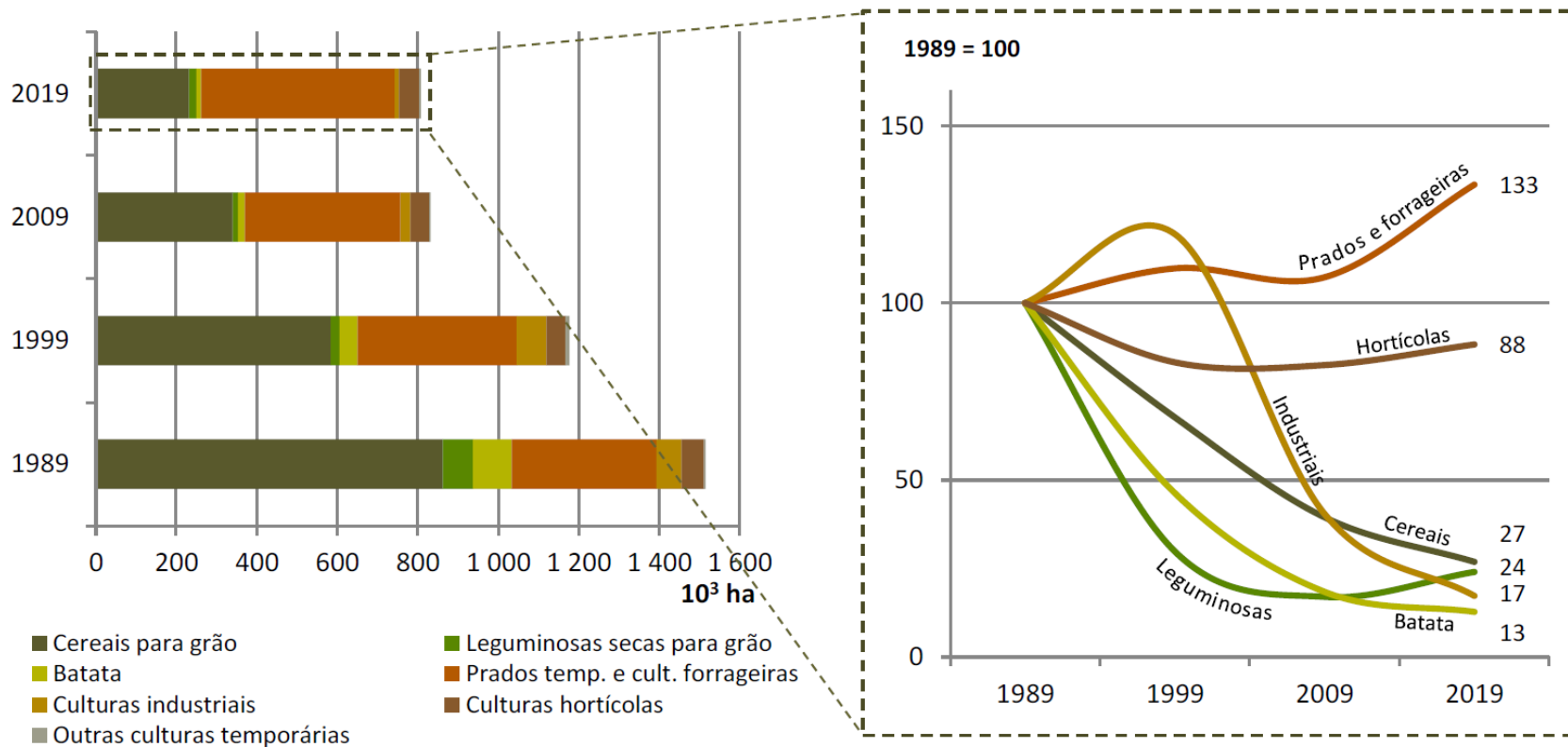
- 
- During the last decade, agricultural land use has changed
    - decrease of 12% in arable land
    - increase of permanent crops (+24%) and permanent grassland (+14%)
    - strong investment in the installation, modernization and irrigation of olive groves and orchards, mainly of berries, subtropical and almond fruits.
  - The corporation of agriculture grew, doubling the number of enterprises in ten years,
  - Companies manage 36% of the UAA (27% in 2009) and produce 56% of the livestock (41% in 2009).
  - On the other hand, in **family-based agriculture**, the aging process has not slowed down, with the average age of single holders rising to 62 years (2 years more than in 2009).
- 

Figura 4. Utilização das terras agrícolas (1989-2019)



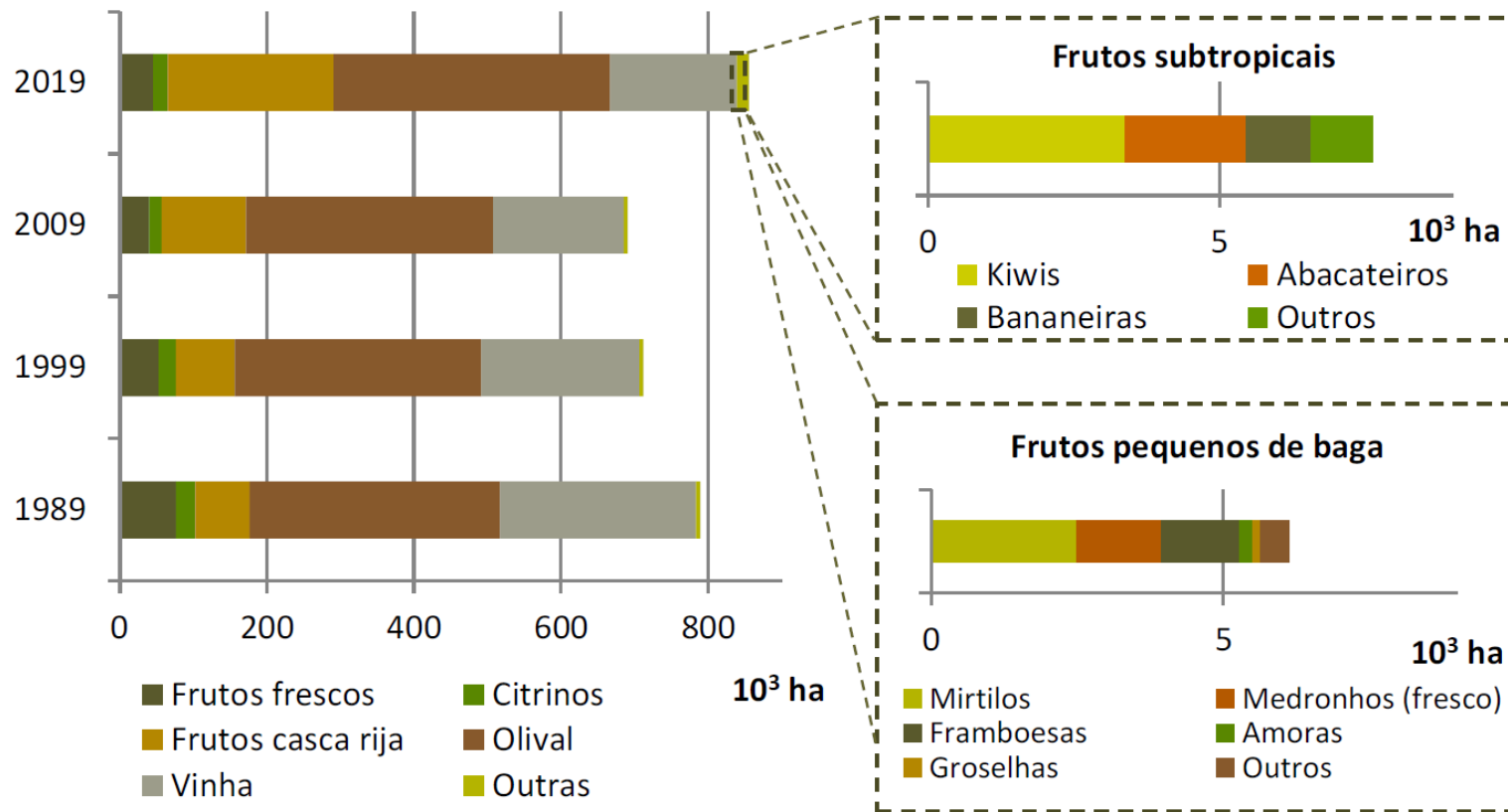
# Crop distribution

Figura 5. Culturas temporárias (1989-2019)



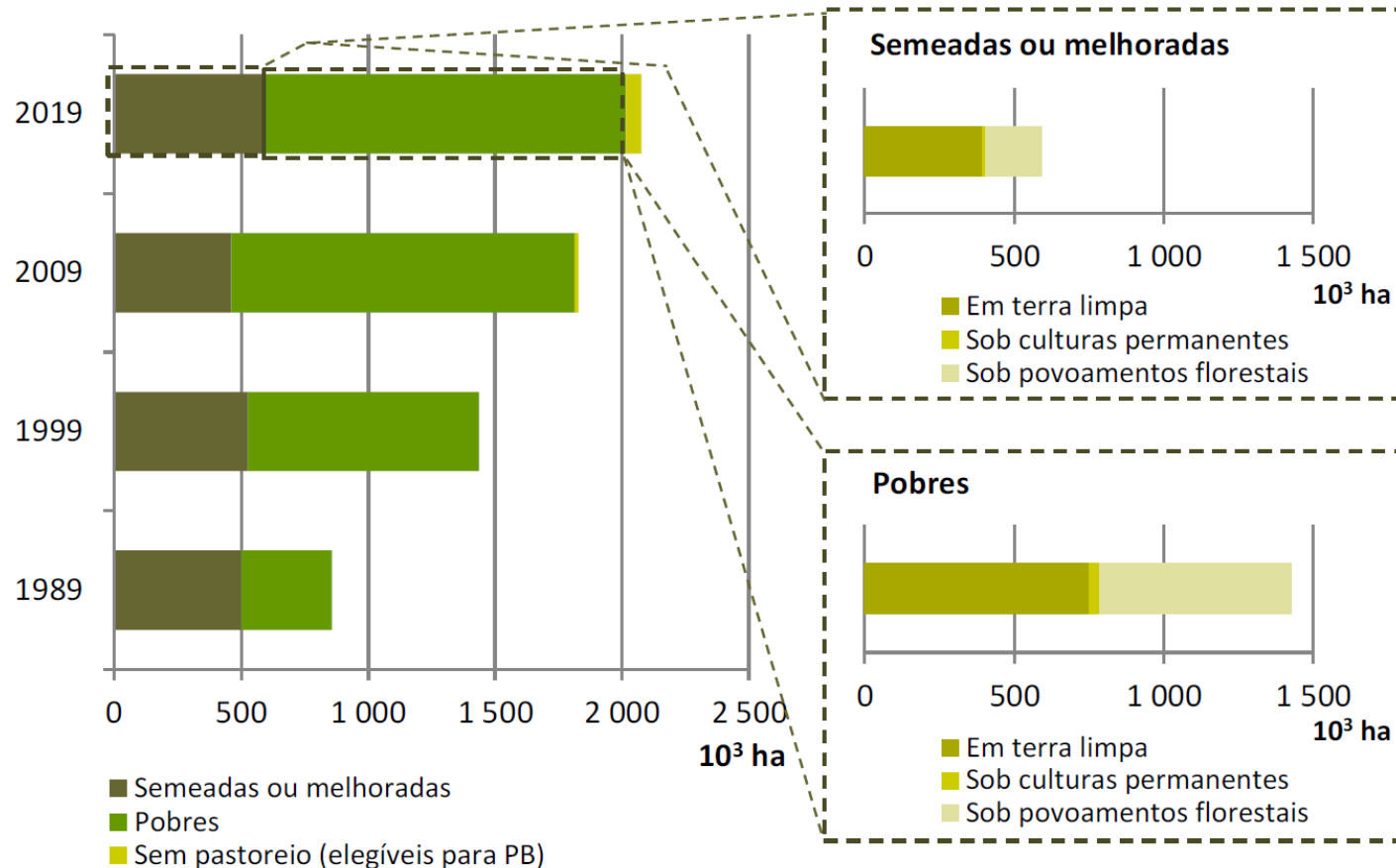
# New interest for tropical crops

Figura 6. Culturas permanentes (1989-2019)



# An increase in permanente pastures

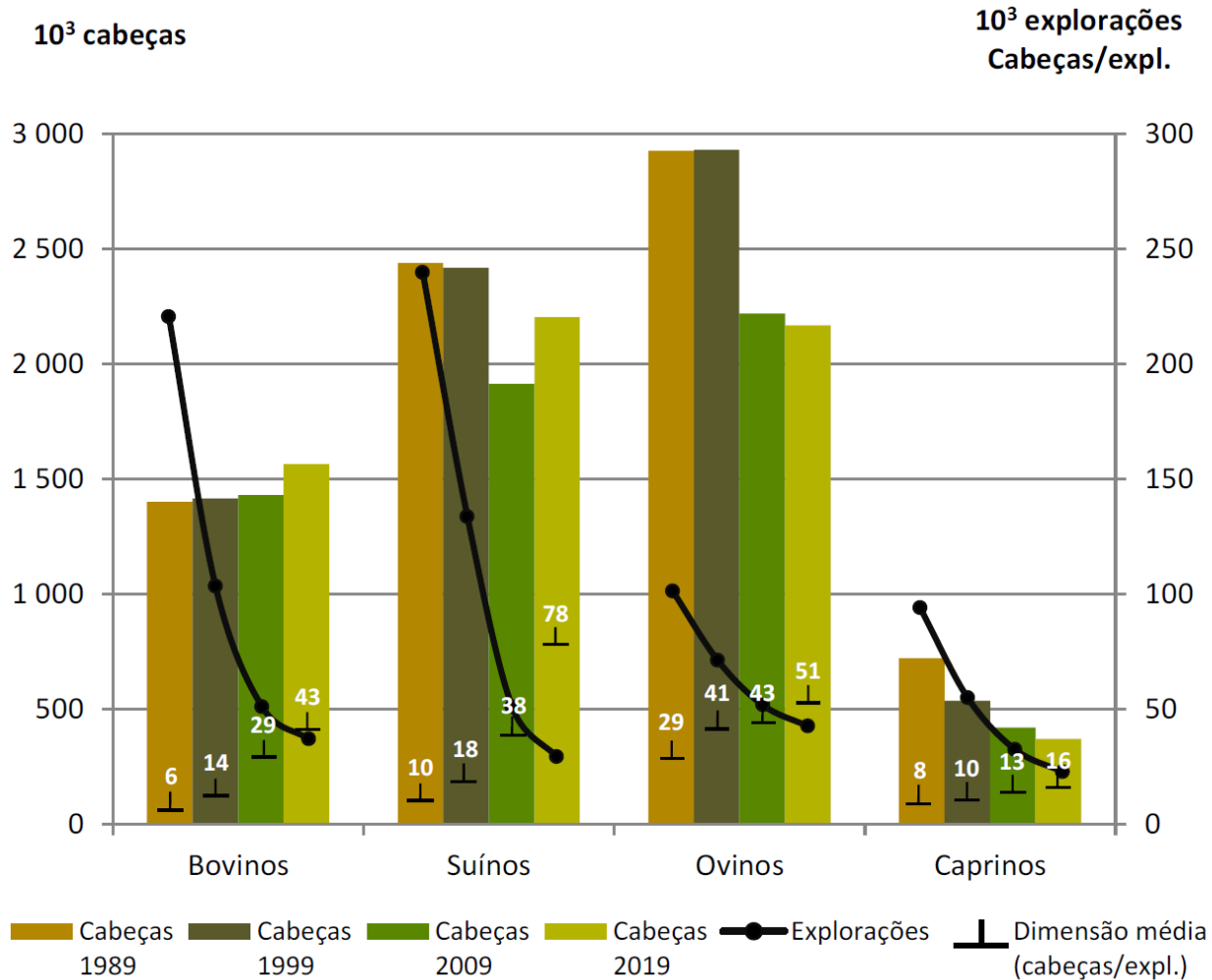
Figura 7. Pastagens permanentes por tipo e forma de instalação (1989-2019)





# Livestock production

Figura 9. Efetivos animais (1989-2019)

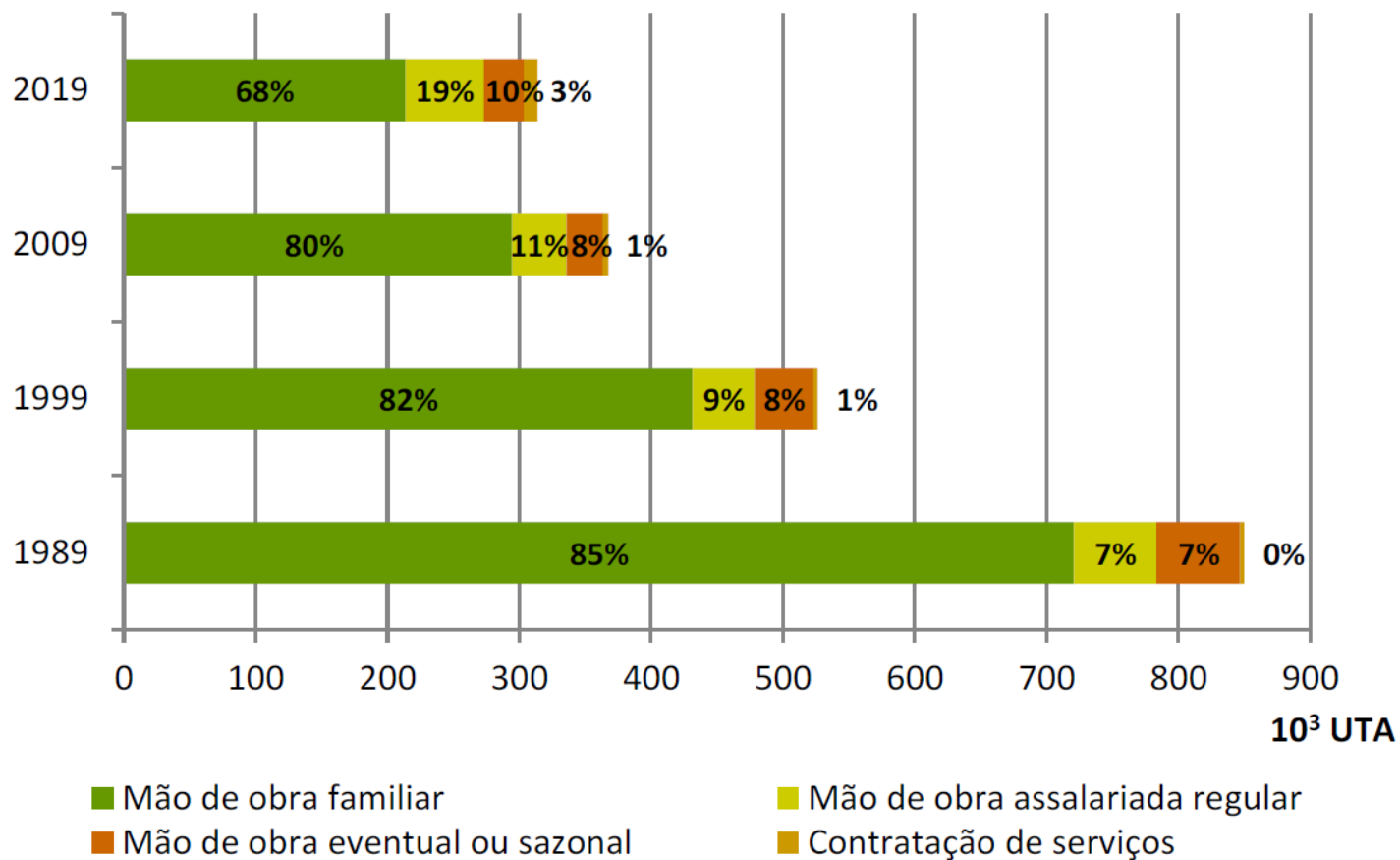


# Labour data

- Most farmers are individuals (95%), although the number of SME has more than duplicated from 6.700 in 2009 to 14.500 in 2019.
- Average age of 62 years old
- 67% men
- 46% basic education
- 2% with higher education
- 53% only practical agricultural education
- SMEs employ 56.000 workers (77% of the work force employed in agriculture on a regular basis)

# Variation in labour type

Figura 12. Composição da mão de obra medida em UTA (1989-2019)

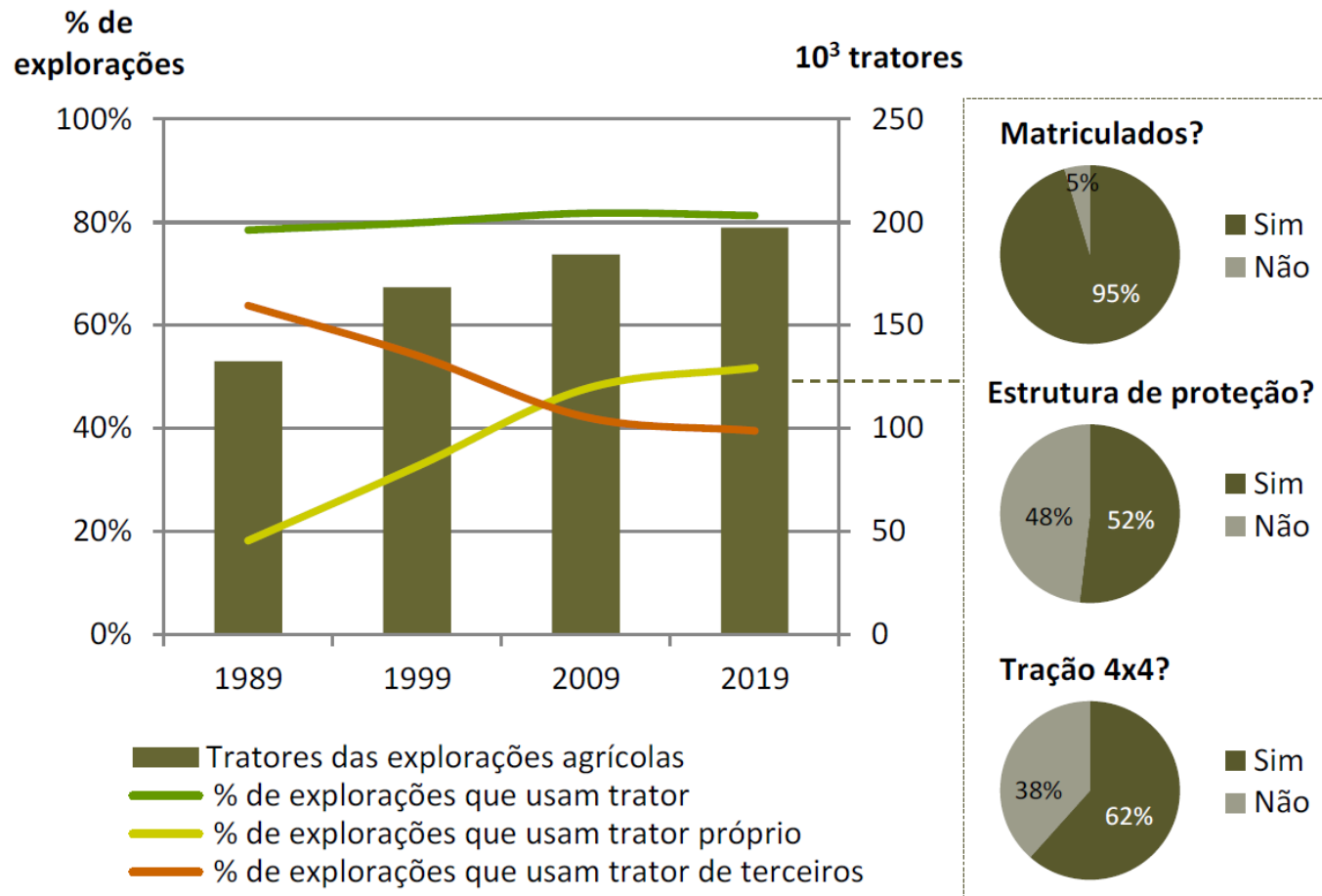


# SMEs characteristics

- 85% run by men
- Average age is 51 years old
- 48% of them with higher education in the area
- 19% with qualifications in the area

# Mechanisation

Figura 15. Utilização de tratores (1989-2019)



# Accidents with > 3 days leave

Tabela 4: Número de acidentes de trabalho não mortais e mortais, 2010 (indivíduos)

	Acidentes de trabalho com mais de três dias de absentismo			Acidentes de trabalho mortais	
	Total	Homens	Mulheres	Número absoluto	Por 100 000 indivíduos empregados
<b>EU-27</b>	3 319 478	2 394 242	924 700	4 395	2,1
<b>PT</b>	130 271	102 775	27 497	204	4,1

Tabela 5: Estatísticas nacionais de acidentes de trabalho mortais e não mortais, 2011 [20]

CAE Rev. 3 (secção A)	GEE			OIT (a)			Eurostat (b)		
	Mortais	Nº total de A.T. não mortais	Nº de dias perdidos	Mortais	Nº total de A.T. não mortais	Nº de dias perdidos	Mortais	Nº total de A.T. não mortais	Nº de dias perdidos
<b>Agricultura, produção animal, caça, floresta e pesca</b>	29	6 971	231 336	29	5 119	231 336	29	4 954	231 042

# Deadly accidents

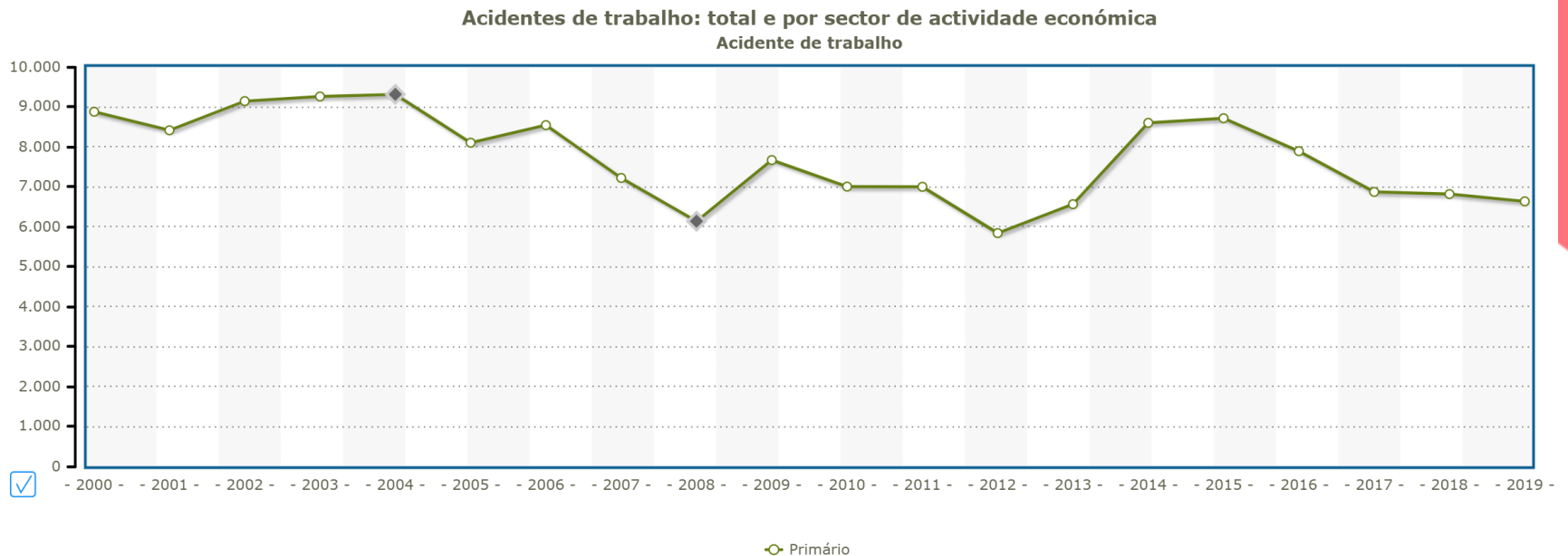
	2018	2019	2020	2021
Agriculture and related activities	6	9	6	1
Agricultural sector, fisheries, hunting	15	16	12	4

Primary sector

Year 2000 - 33

Year 2019 - 15

# Total accidents primary sector

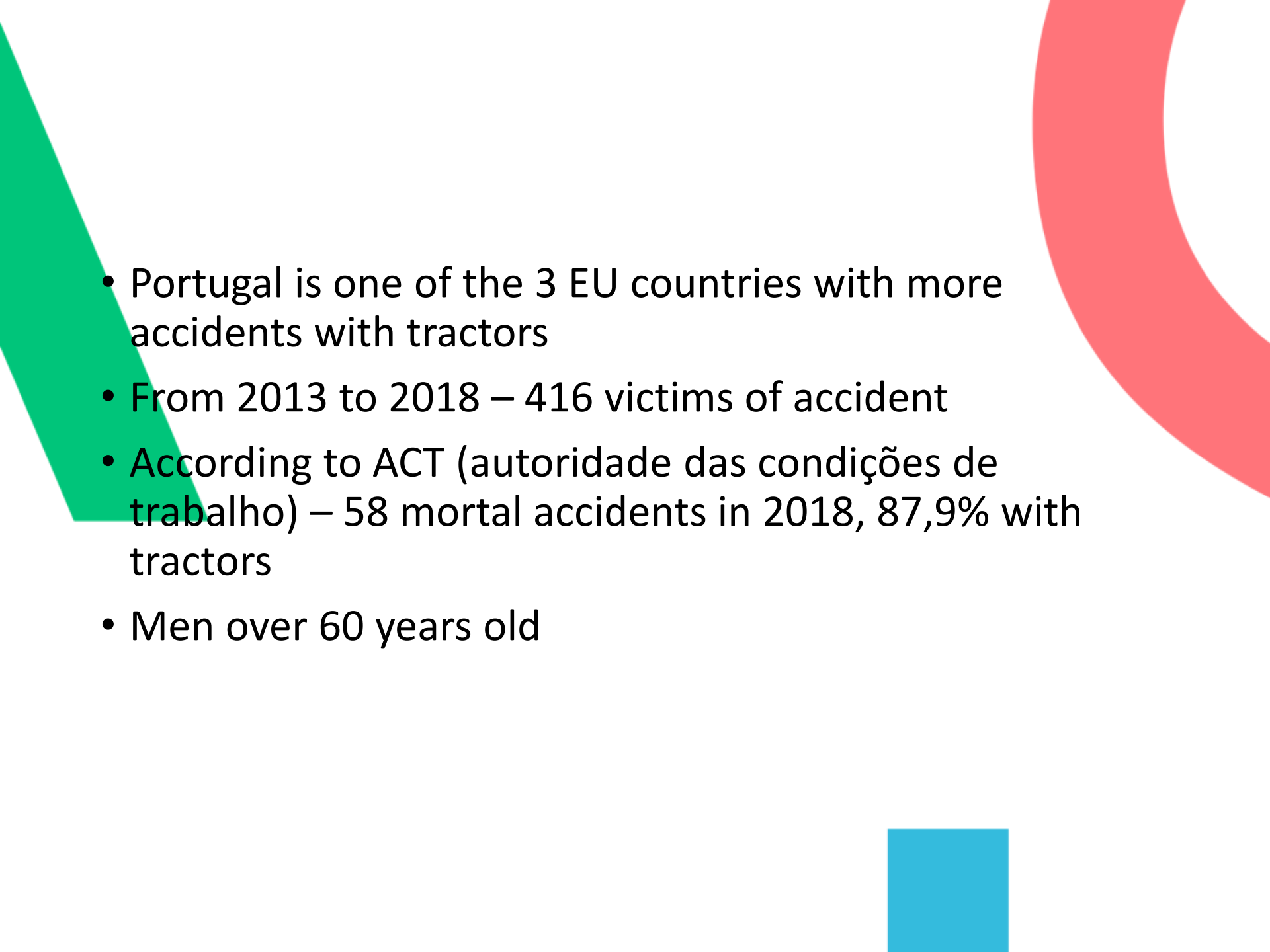


Fontes/Entidades: GEP/MTSSS (até 2009) | GEE/MEc (a partir de 2010), PORDATA

Year 2000 - 8.881

Year 2019 - 6.635



- 
- Portugal is one of the 3 EU countries with more accidents with tractors
  - From 2013 to 2018 – 416 victims of accident
  - According to ACT (autoridade das condições de trabalho) – 58 mortal accidents in 2018, 87,9% with tractors
  - Men over 60 years old

# Determinants

- Age
- Lack of education and instruction to operate the machinery
- Excessive confidence
- Old tractors (> 50% with more than 20 years))
- Coimbra, Porto, Braga e Viseu
- Small property



THANK YOU