



# Legionnaires' Disease surveillance in Italy

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# LD surveillance system in Italy



Legionnaires disease is a compulsory notifiable disease in Italy.

Istituto Superiore di Sanità (ISS) is in charge of the enhanced surveillance system that has been running since 1993.

The surveillance system includes both epidemiological and laboratory activities

EU case definition 2018 is adopted for surveillance

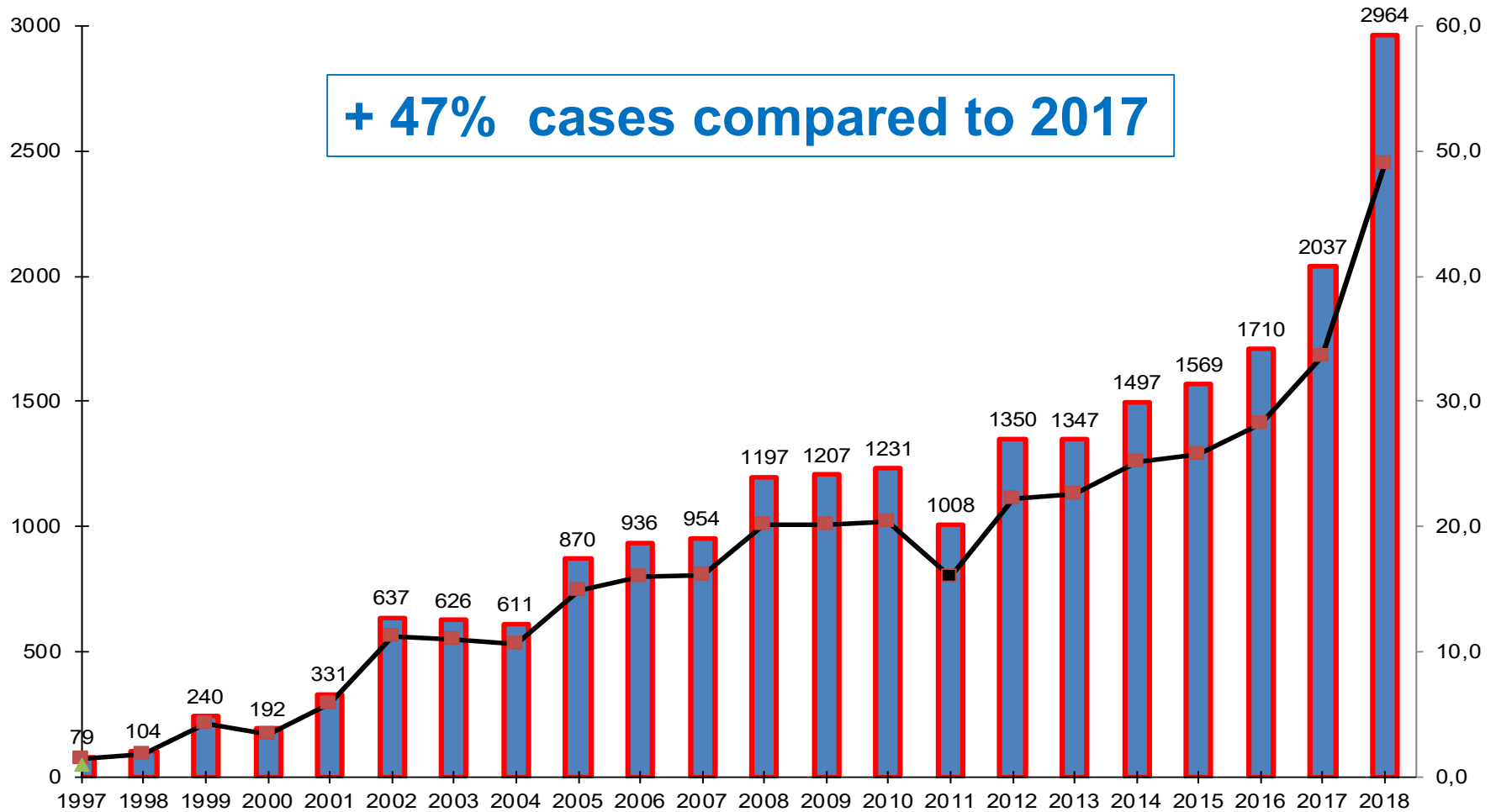
# Legionnaires' disease surveillance

## Objectives

The objectives of LD epidemiological and microbiological surveillance are to:

- Monitor and identify changes in LD disease epidemiological trend;
- Identify main risk factors;
- Promptly detect clusters and environmental infection sources;
- Promote prevention and control of infections;
- Collect and type Legionella strains;
- Confirm LD diagnosis when required;
- Provide information for stakeholders.

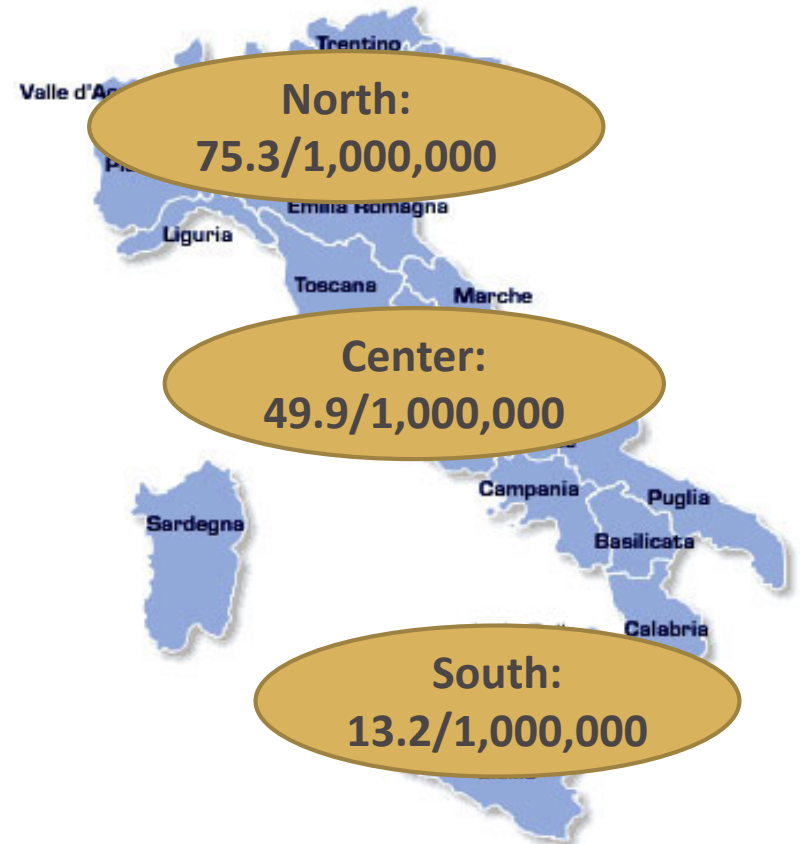
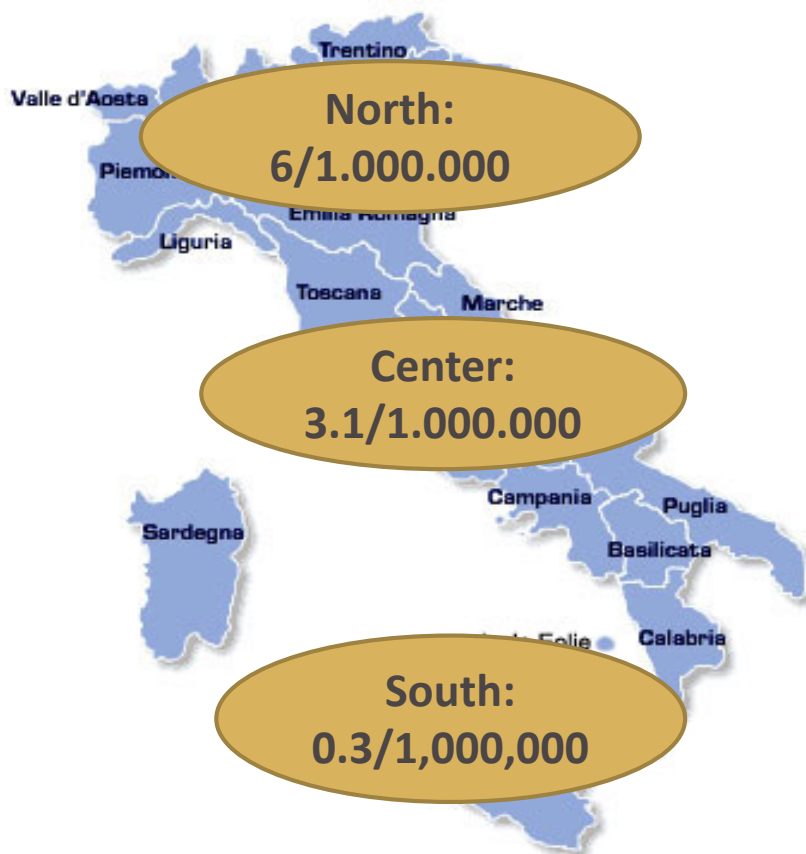
# LD cases in Italy from 1997-2018 by date of onset



# Incidence by geographical area, Comparison years 2000-2018

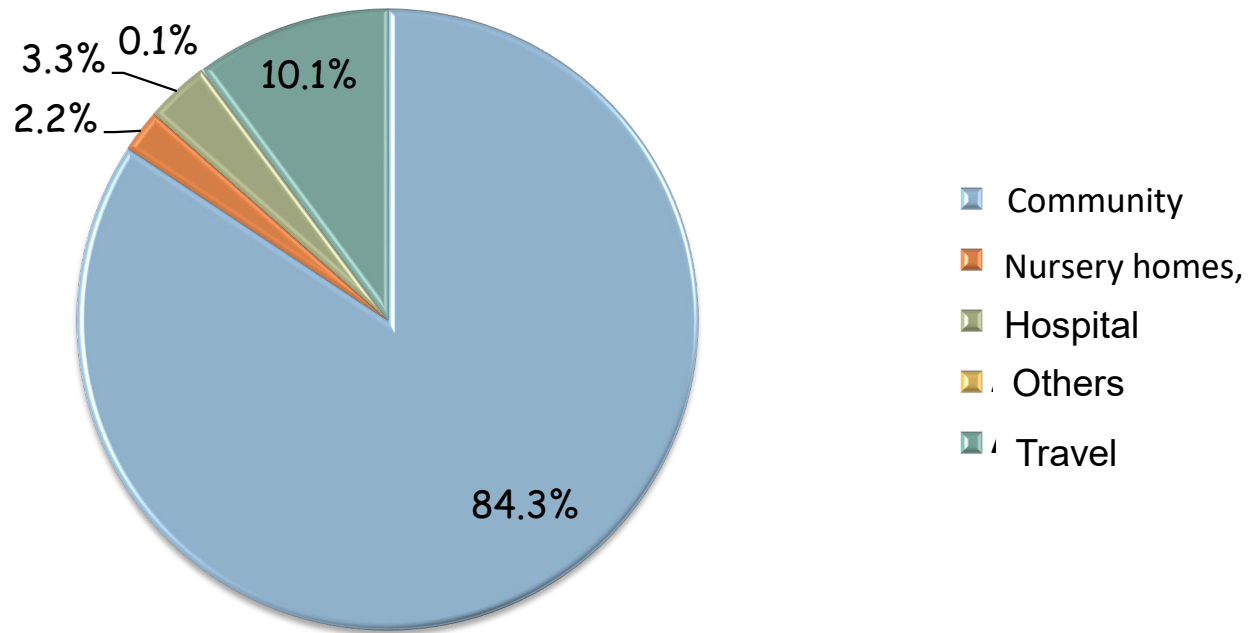
2000: Total incidence  
3.4/1.000.000

2018: Total incidence  
49.0/1.000.000



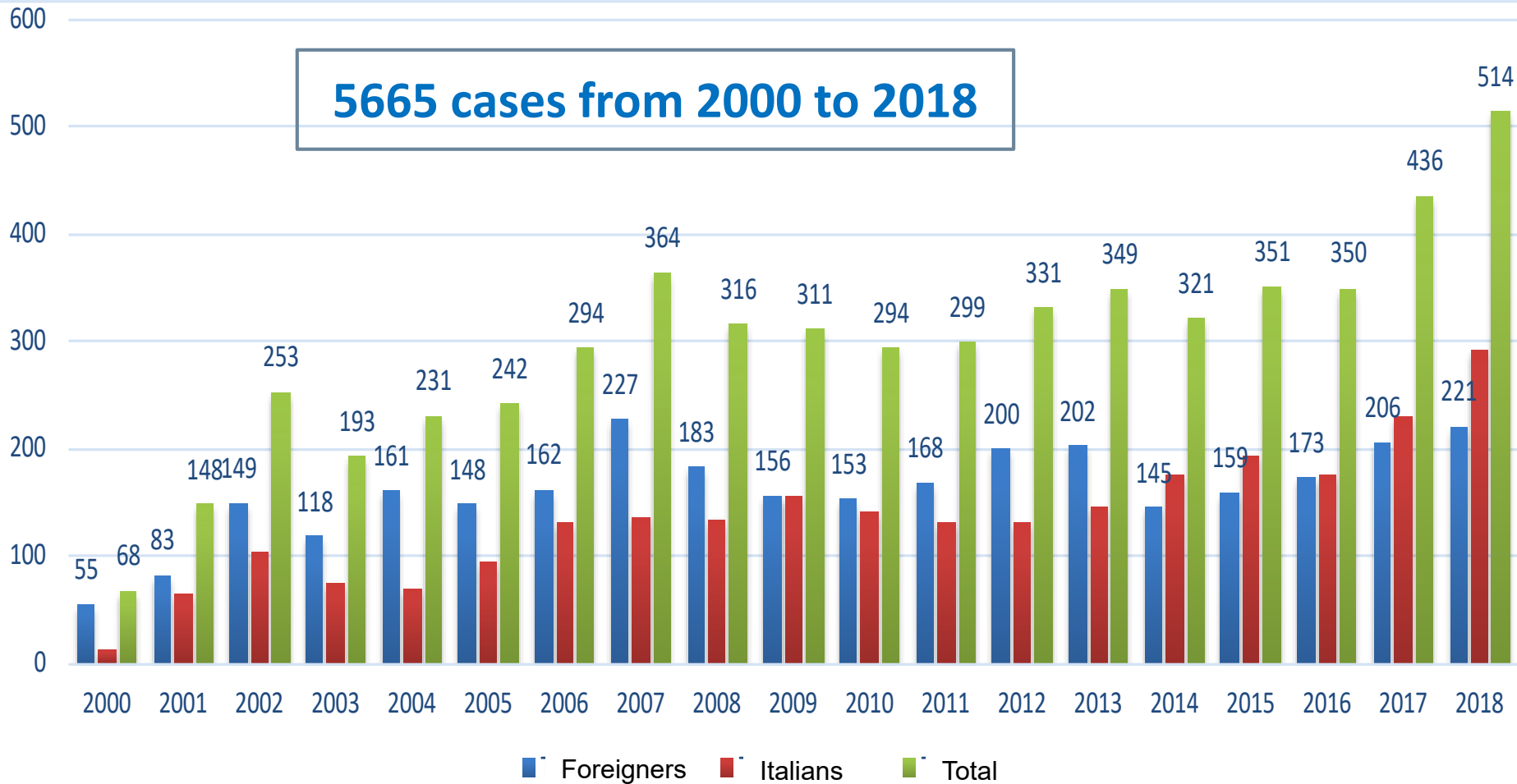
# Cases (%) by setting, 2018

N. cases in 2018: 2964

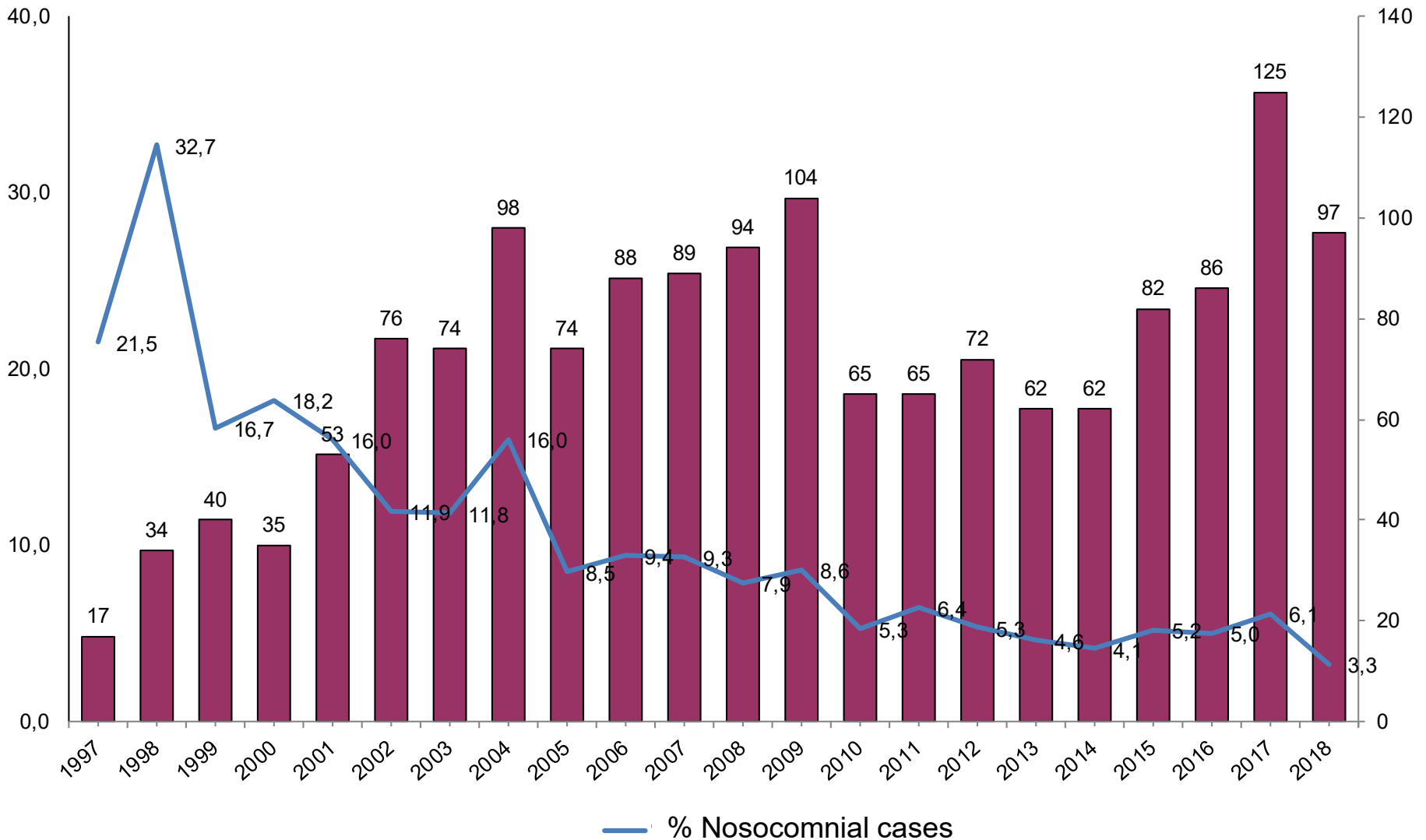


# N. of TALD cases by year, Italy 2000-2018

5665 cases from 2000 to 2018



# N. and % of nosocomial cases, Italy 1997-2018





# Conclusions

- The number of Legionnaires' disease cases is still growing in Italy. In 2018, **2964** cases have been diagnosed.
- The increase is due to improvement of diagnosis and enhanced surveillance.
- However, in Italy, the disease is still under ascertained, mainly in the central and southern regions, which notify only approximately 30% of the cases.
- 78% of cases are notified by 6 regions (Lombardia, Piemonte, Veneto, Emilia-Romagna, Toscana, Lazio) which represent the 55% of the total Italian population.





**Thank you for your attention**