

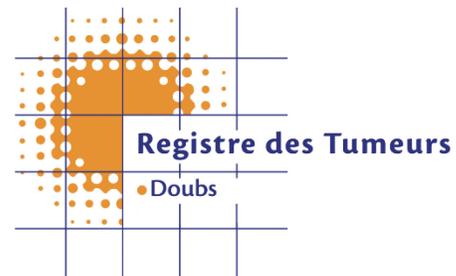


# Surveillance of Cancer in France

Anne-Sophie WORONOFF

2-3 December, 2021

VEYRIER-DU-LAC, ANNECY, FRANCE



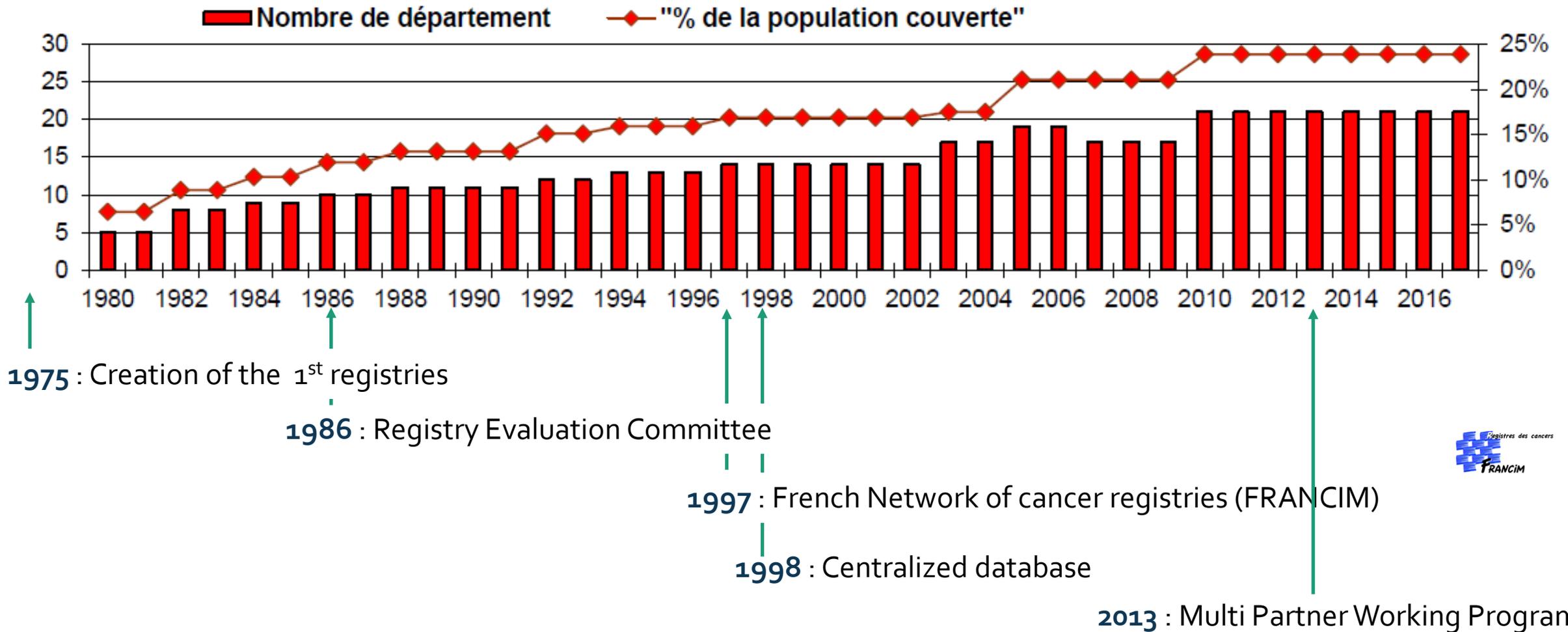
# Cancer Registries

- **Population-based registry** records all new cases in a defined population
  - ▶ Continuous and exhaustive records of nominative data concerning one or more health events in a defined population (geographical administrative area) for epidemiologic and public health research by a team with appropriate skills  
All patients living in the area, wherever the patient is treated for the cancer
  - ▶ Unbiased and standardized information
  - ▶ International recording rules that ensure comparability of data across countries and time periods (IACR/IARC, ENCR)

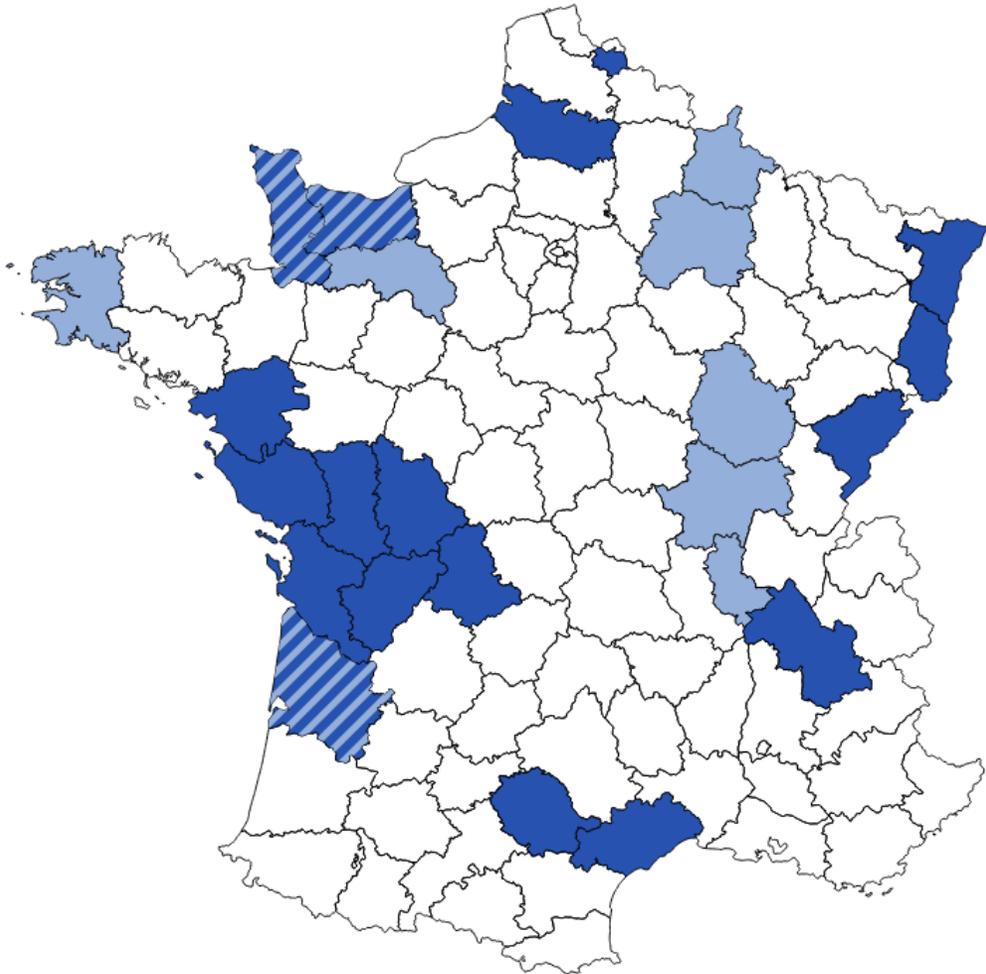
# Cancer Registries

- Double objective: SURVEILLANCE and RESEARCH
  - Estimation of cancer incidence, prevalence and survival of cancers and their trends over time
  - Participation in the evaluation of health programs: prevention, screening (reduction in incidence and/or mortality, early detection)
  - Knowledge of the care pathways taken by patients (inequalities in access, quality of care, deviation from recommendations)
- ➔ Cancer registry: a pivotal role in cancer control

# Cancer Registries in France

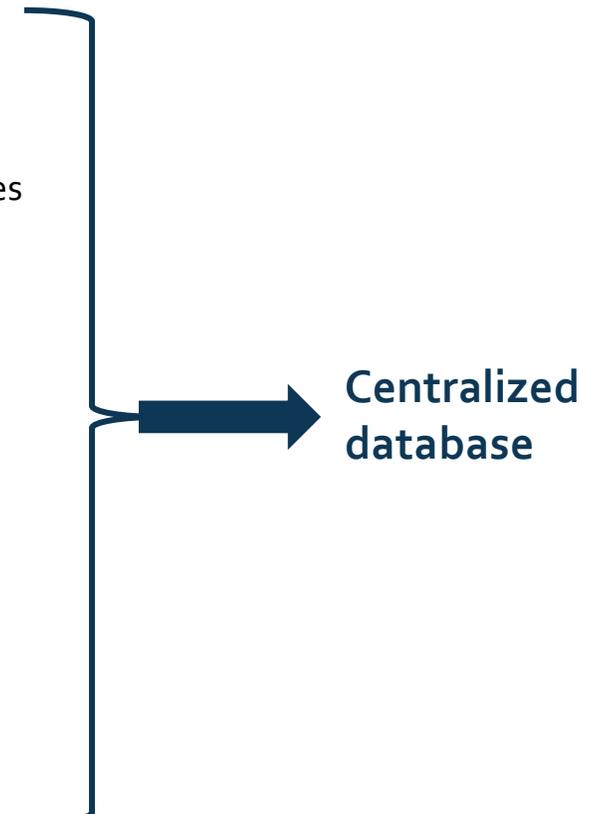


# Cancer Registries in France



- **14 GENERAL REGISTRIES** (18 *départements*)
- **10 SPECIALIZE REGISTRIES** (digestive, thyroid, breast & gynaecologic, central nervous system, haematological malignancies + mesothelioma)
- + **4 GENERAL REGISTRIES OVERSEAS** (Guadeloupe, Martinique, Guyane, Réunion)
- + **2 PAEDIATRIC REGISTRIES (NATIONAL LEVEL)** (solid tumors and haematological malignancies)

- General registries
- ▨ General & specialize registries
- Specialize registries



# Key aspects of cancer registry data

- **Completeness**

- All the incident cancers occurring in the defined population are included in the registry database
- Cross-referencing of multiple nominative databases

- **Comparability**

- Coding and classification procedures according international standards (ICD-O3, TNM-8, ...)

- **Quality**

- Registry Evaluation Committee: every 5 years
- Quality (data, team)

# A Multi Partner Working Program

Incidence



Prévalence



Stage distribution



Incidence at regional level & départements



Incidence



1997

2006



Net Survival

2013



Net Survival

2014



Net Survival

2016



Conditional survival

2018



Crude Mortality

2019

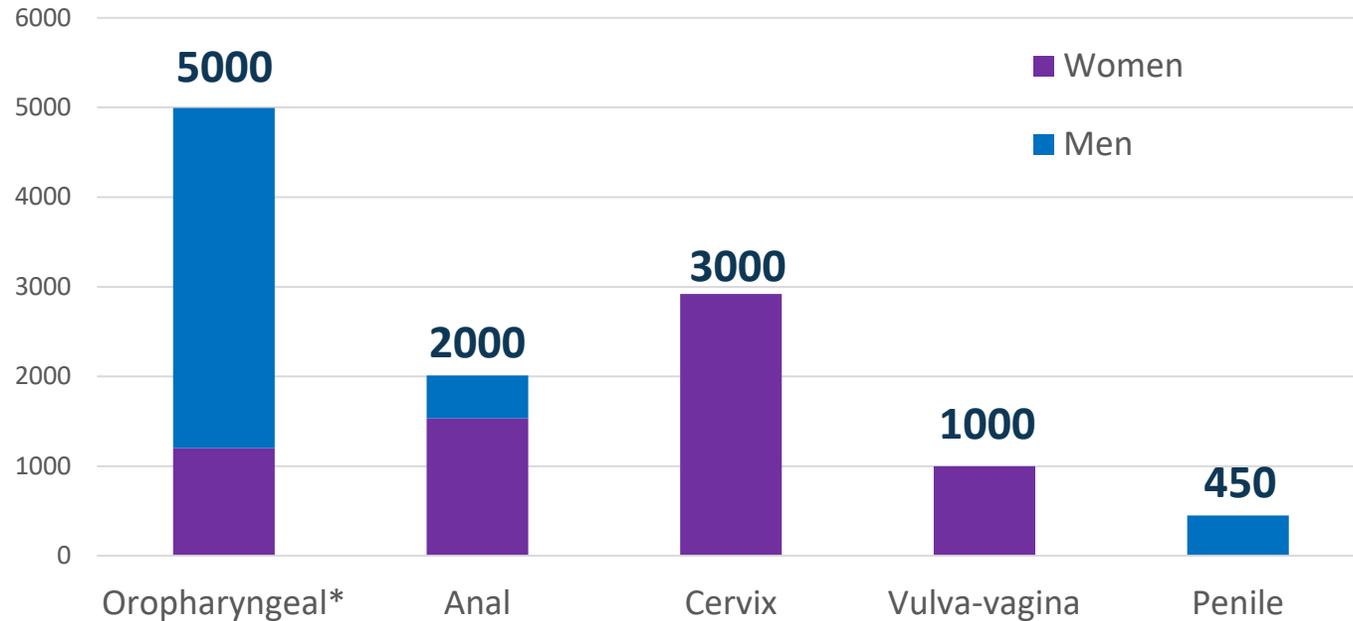
2020

2021



Net Survival

# HPV-related cancers (2018, France)



	N	Women	Men
Oropharyngeal*		1200	3793
Anal		1532	479
Cervix		2920	
Vulva-vagina		1000	
Penile			449

\*Oropharyngeal cancer: C01, C09-C10



# Trends 1990-2018

## CERVICAL CANCER, BY AGE

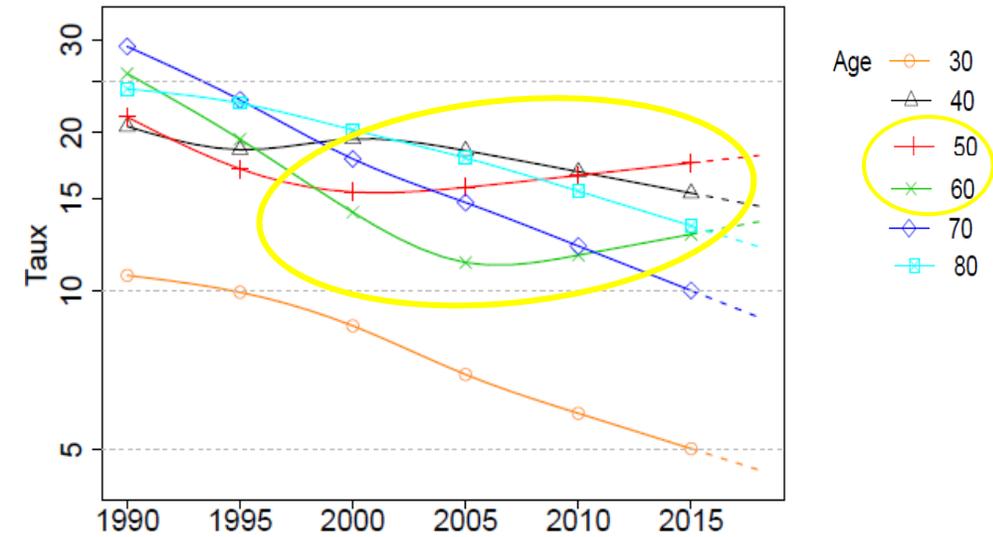
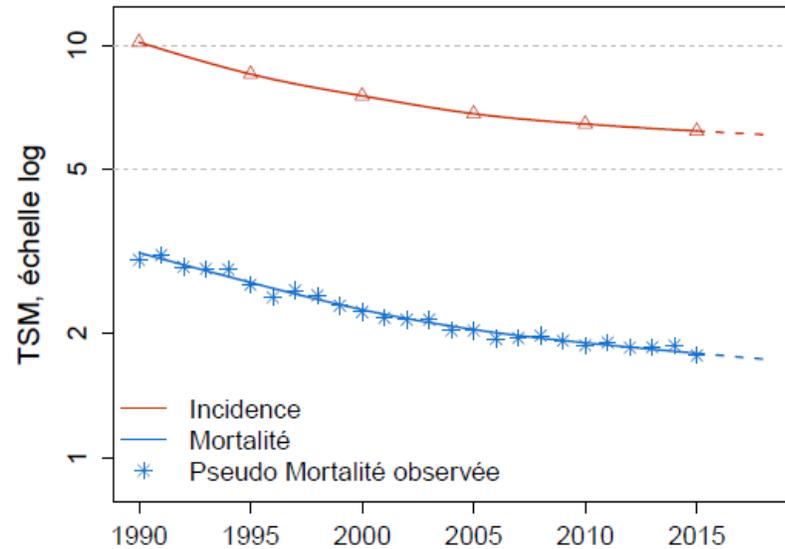


Figure 1A: Age-standardized incidence trends by sex; 1990-2018; France

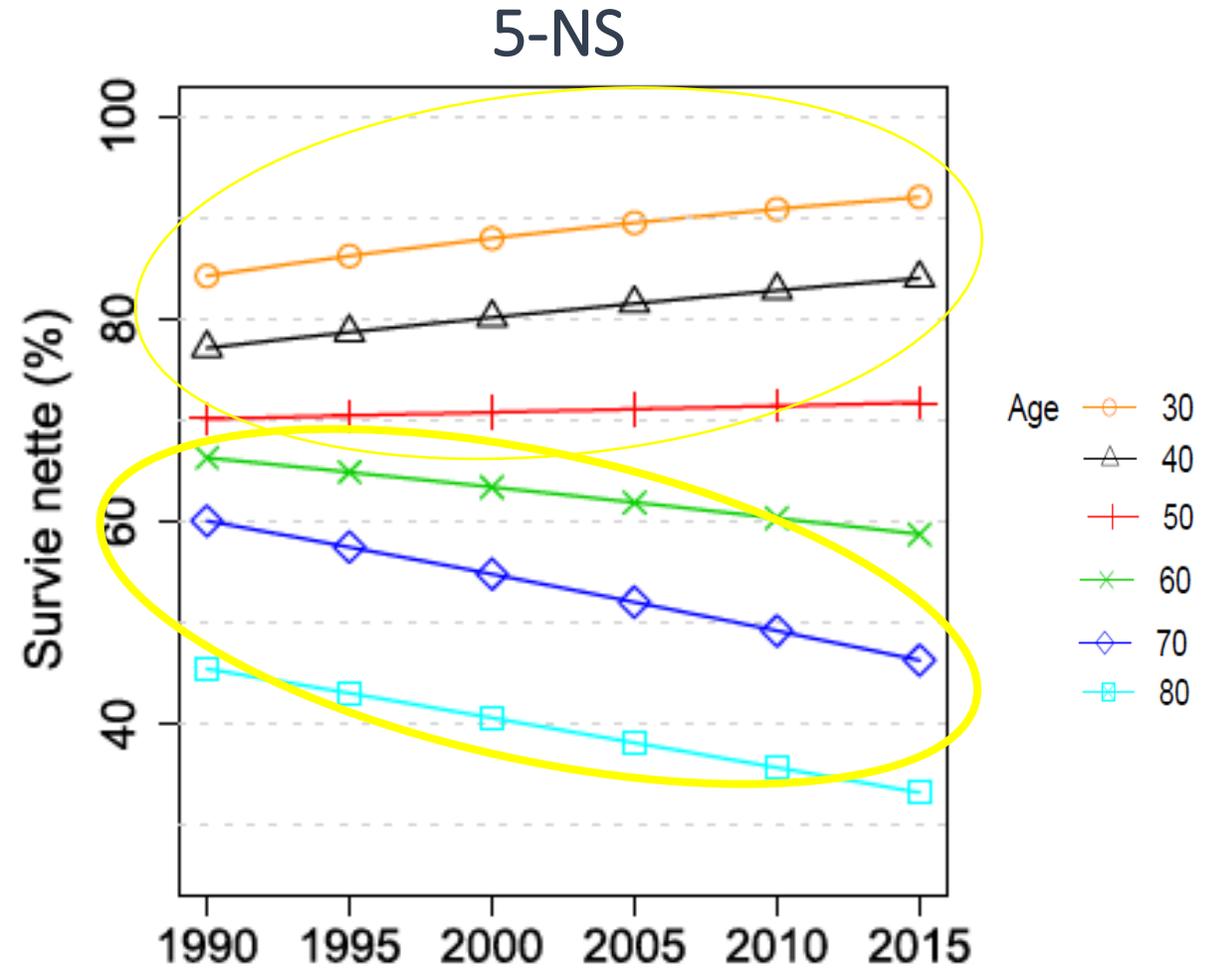
Figure 1B: Incidence rates trends by age in women; 1990-2018; France

% DE VARIATION ANNUELLE MOYENNE	FEMMES	
	1990-2018	2010-2018
INCIDENCE	-1,8 % [-2,1; -2,5]	-0,7 % [-1,5; 0,0]
MORTALITE	-2,1 % [-2,3; -1,9]	-1,1 % [-1,7; -0,6]

INCIDENCE	
Age	1990-2018
30	-3.2 [-3.8; -2.2]
40	-1.2 [-1.8; -0.7]
50	-0.6 [-1.2; 0]
60	-2.3 [-2.9; -1.7]
70	-4.1 [-4.8; -3.4]
80	-2.4 [-3.2; -1.7]

# Survival CERVICAL CANCER, BY AGE

Year	5 yrs-Net Survival %
1990	66 [64 ; 67]
2015	62 [60 ; 64]
Diff 2015-1990	-3 [-7 ; 0]



# Trends 1990-2018

## ANAL CANCER, BY AGE

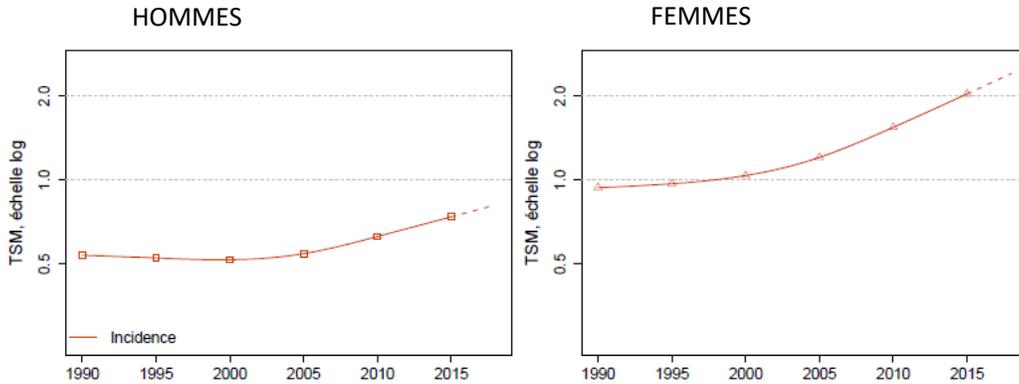


Figure: age-standardized incidence rates by sex; 1990-2018; France

### Anus

HOMMES		FEMMES	
1990-2018	2010-2018	1990-2018	2010-2018
+1,5 [0,7; 2,2]	+3,3 [1,5; 5,1]	+3,4 [2,9; 3,9]	+2,7 [1,9; 3,5]

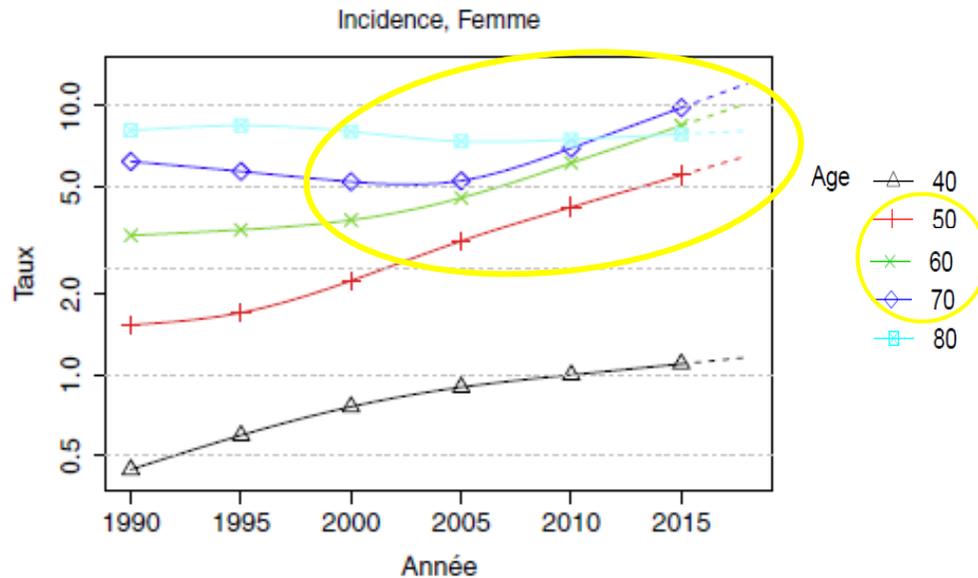


Figure: Incidence rates trends by age in women; 1990-2018; France

# International collaborations

- international collaborations → develop research on **Cancer Incidence, Mortality and Survival**
- In Europe, through the **European Network of Cancer Registries (ENCR)**
  - EURO CARE : European cancer registry based study on survival and care of cancer patient
- In the World, through the **IARC/WHO**
  - GLOBOCAN: Global Cancer Observatory database
  - CONCORD: Cancer survival in five continents
  - Cancer Incidence in 5 continents (CI5)

# Incidence & Mortality Rate for cervical cancer by country

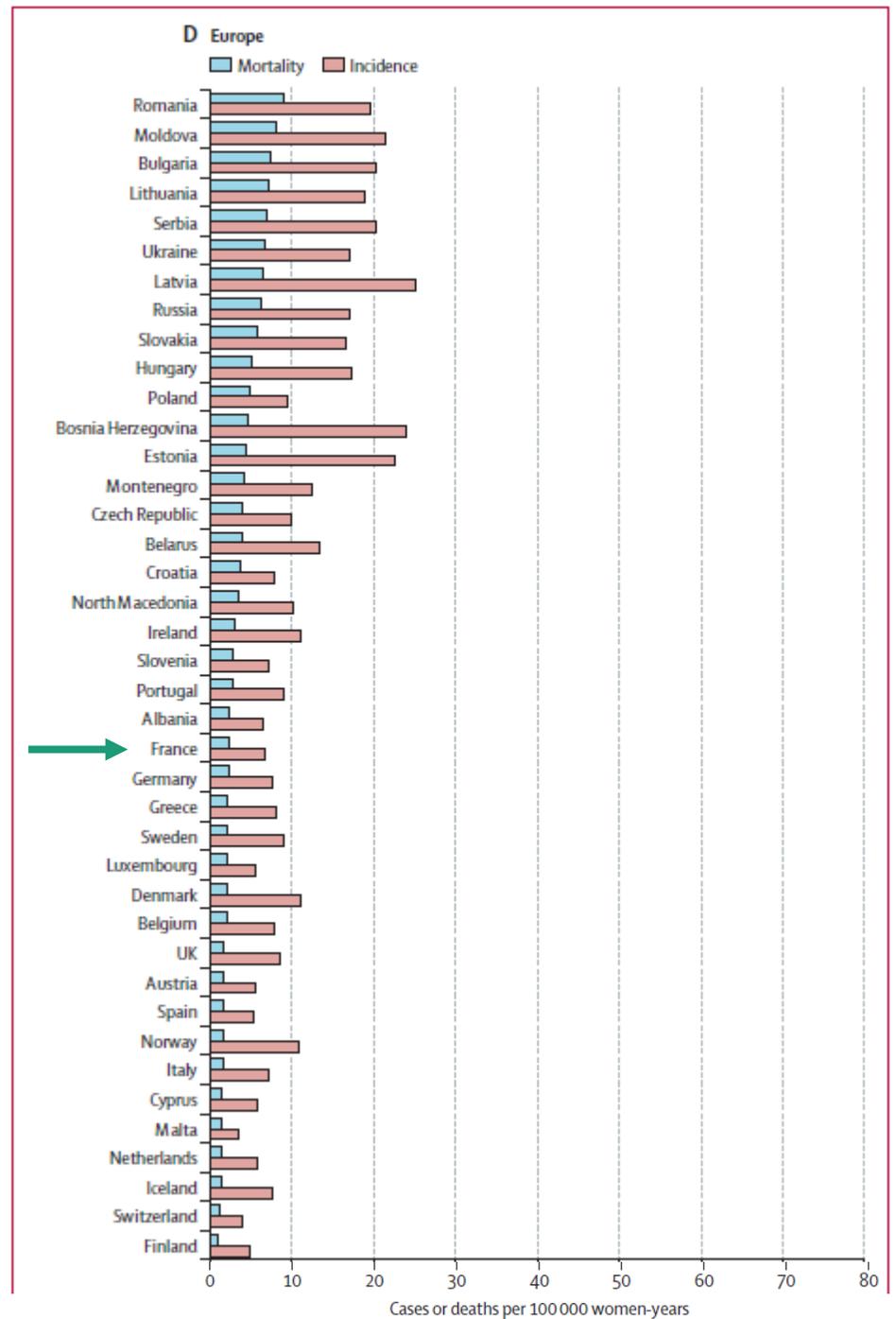
## GLOBOCAN 2018

### Age standardized incidence rates in Europe

- Central-eastern Europe: 16.0
- Northern Europe: 9.5
- Southern Europe: 7.8
- Western Europe: 6.8

Figure: World age-standardized incidence and mortality rates for cervical cancer, estimates for 2018, ordered by country and ranked in descending order of mortality

Arbyn M. The Lancet Global Health 2020



**Merci pour votre attention**