

# SOCIALE ONGELIJKHEID IN KANKERINCIDENTIE, -SURVIVAL EN -STERFTE

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# ROAD MAP

- ▶ Rationale for linking
- ▶ Linkage and collaboration
- ▶ Possibilities of data



# 1. RATIONALE FOR LINKING

- ▶ Socioeconomic and migrant background differences in cancer *mortality*
- ▶ E.g. Socioeconomic:
  - ▶ In 1980s: + association education / breast cancer mortality
  - ▶ In 1990s: no or - association
    - Change in patterns of incidence or rather survival?

# 1. RATIONALE FOR LINKING

- E.g. Migrant background: lung cancer mortality rate ratios (men, aged 25-54)

| Migrant background                        | Mortality rate ratios | 95% confidence intervals |
|---|-----------------------|--------------------------|
| Belgian (reference)                       | 1.00                  |                          |
| French, 1 <sup>st</sup> gen, 0-9 years    | 0.68                  | 0.40 – 1.17              |
| French, 1 <sup>st</sup> gen, ≥ 10 years   | 1.46                  | 1.22 – 1.75              |
| French, 2 <sup>nd</sup> gen               | 1.55                  | 1.18 – 2.03              |
| Dutch, 1 <sup>st</sup> gen, 0-9 years     | 0.34                  | 0.20 – 0.59              |
| Dutch, 1 <sup>st</sup> gen, ≥ 10 years    | 0.79                  | 0.57 – 1.11              |
| Dutch, 2 <sup>nd</sup> gen                | 0.89                  | 0.63 – 1.27              |
| Moroccan, 1 <sup>st</sup> gen, 0-9 years  | 0.73                  | 0.40 – 1.32              |
| Moroccan, 1 <sup>st</sup> gen, ≥ 10 years | 1.00                  | 0.81 – 1.23              |
| Moroccan, 2 <sup>nd</sup> gen             | 1.99                  | 1.13 – 3.52              |

Source: Belgian census linked to Registry data and death certificates, period 2001-2011

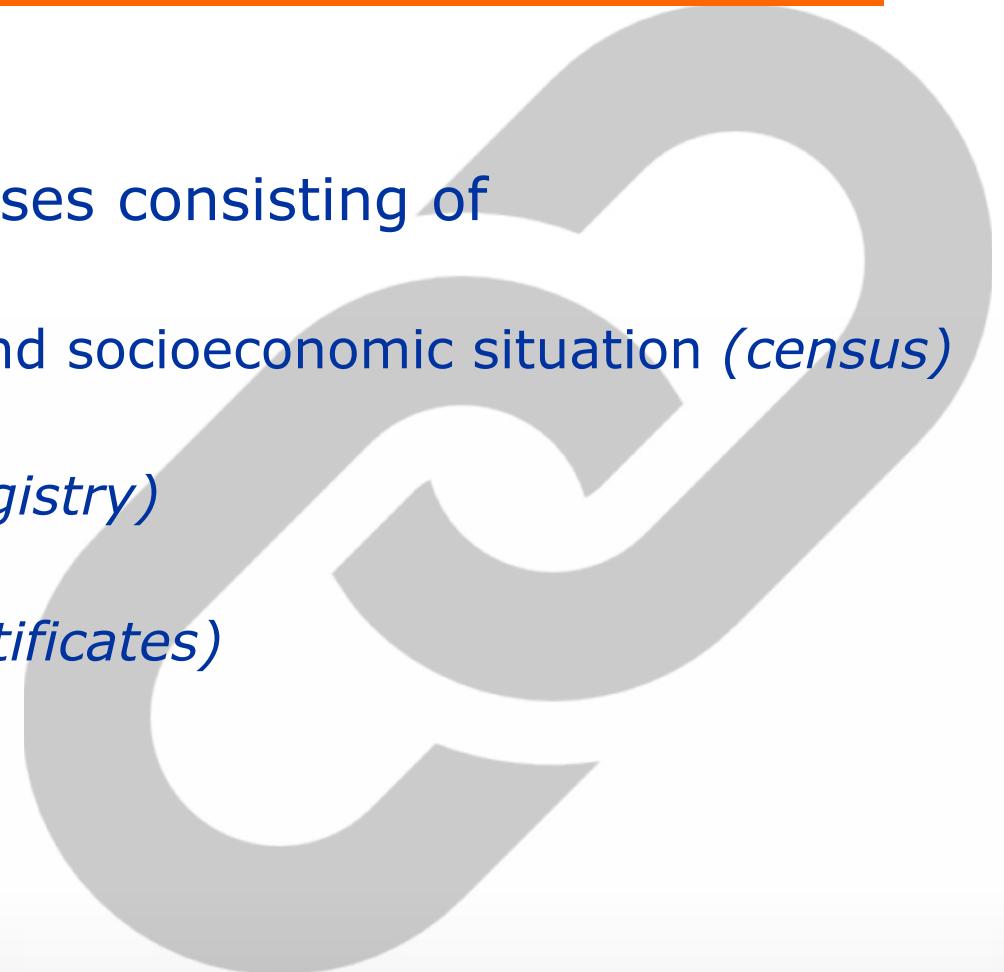
# 1. RATIONALE FOR LINKING



- ▶ Do mortality patterns reflect patterns in incidence, or rather survival?

## 2. LINKAGE AND COLLABORATION

- ▶ → Linkage between different databases consisting of
  - ▶ information on sociodemographics and socioeconomic situation (*census*)
  - ▶ cancer incidence (*Belgian Cancer Registry*)
  - ▶ (cause-specific) mortality (*death certificates*)

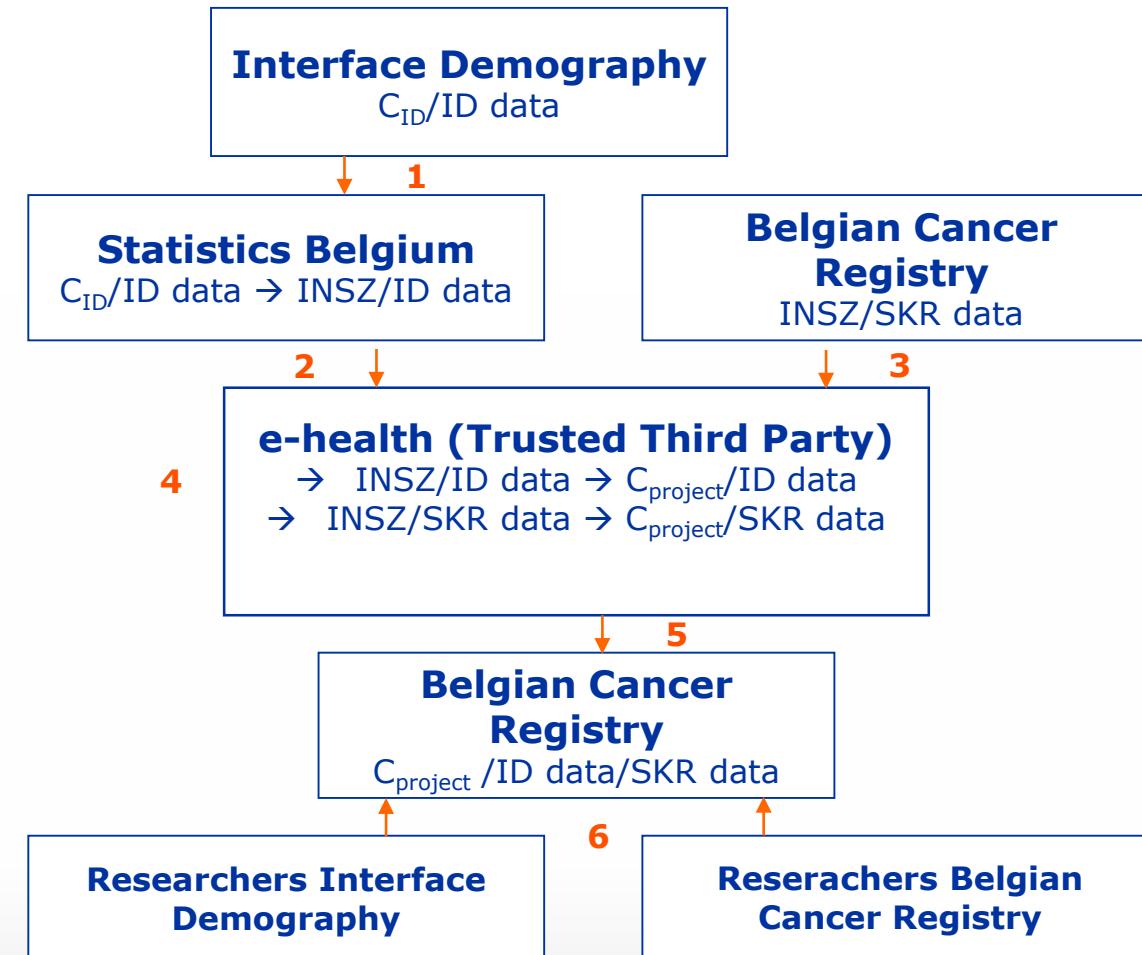


## 2. LINKAGE AND COLLABORATION

- ▶ Collaboration between
  - ▶ Belgian Cancer Registry
  - ▶ Statistics Belgium
  - ▶ Interface Demography



## 2. LINKAGE AND COLLABORATION



### 3. POSSIBILITIES OF DATA

#### Main objectives project

- ▶ Map out differences in incidence, survival & mortality by migrant background and socioeconomic position
- ▶ Probe into mechanisms behind the observed patterns
  - ▶ Socioeconomic, demographic and clinical confounders
  - ▶ Breaking down: immigrant origin, generations, age at migration, length of stay

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Example of research currently being conducted

- ▶ Is lower breast cancer mortality in non-western migrant vs. Belgian women due to lower incidence and/or higher survival in these groups?
  - ▶ Role of reproductive factors in incidence pattern?
  - ▶ Role of stage at diagnosis in differences in survival risks between Belgian and non-western women?



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