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A new open-access database on French local mortality during the 20th century

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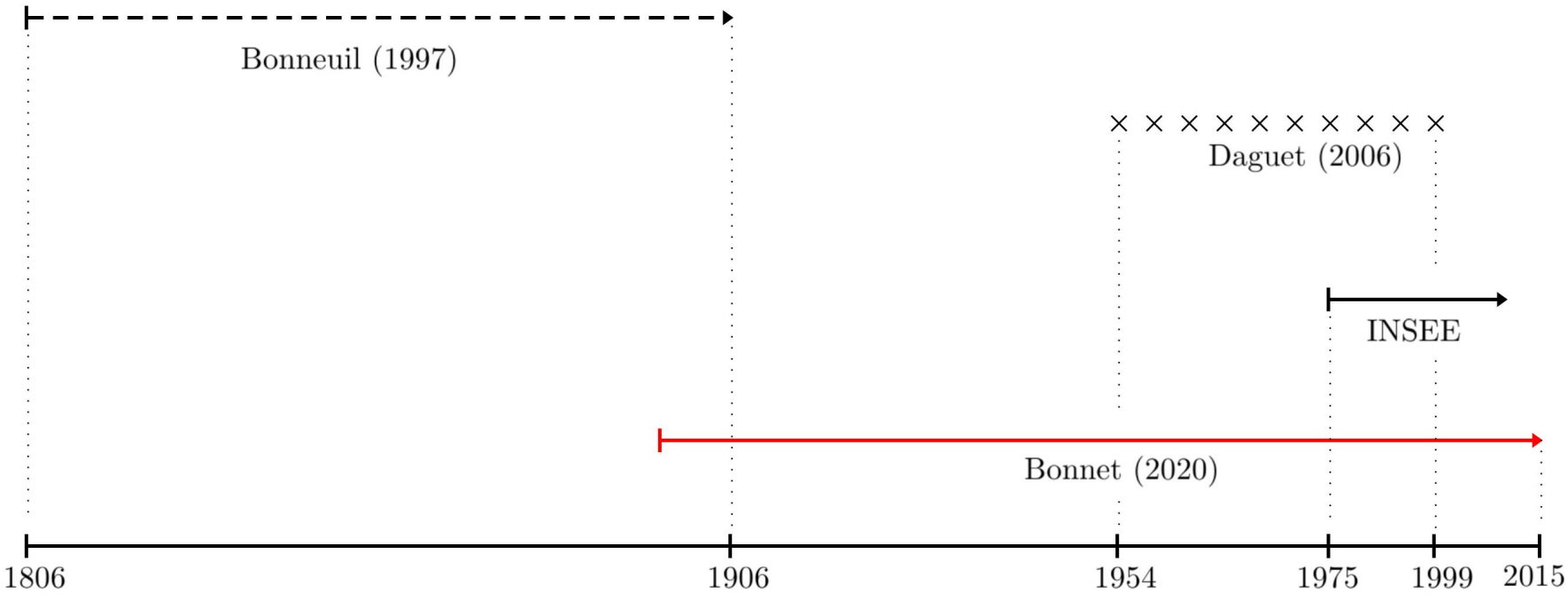
3rd HMD Conference

17 November 2020

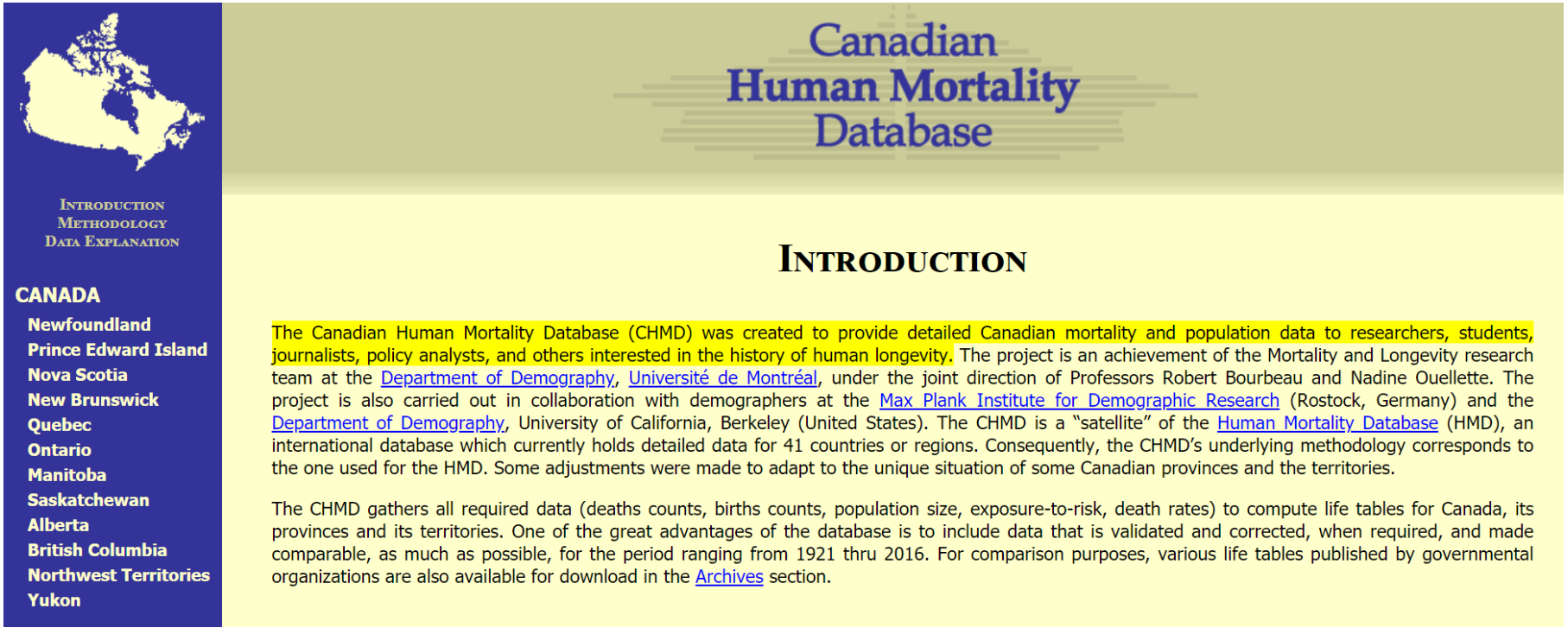
Main goals: annual lifetables for French departments

- **Available databases on mortality at local level in France en 2020**



Main goals: a dedicated website

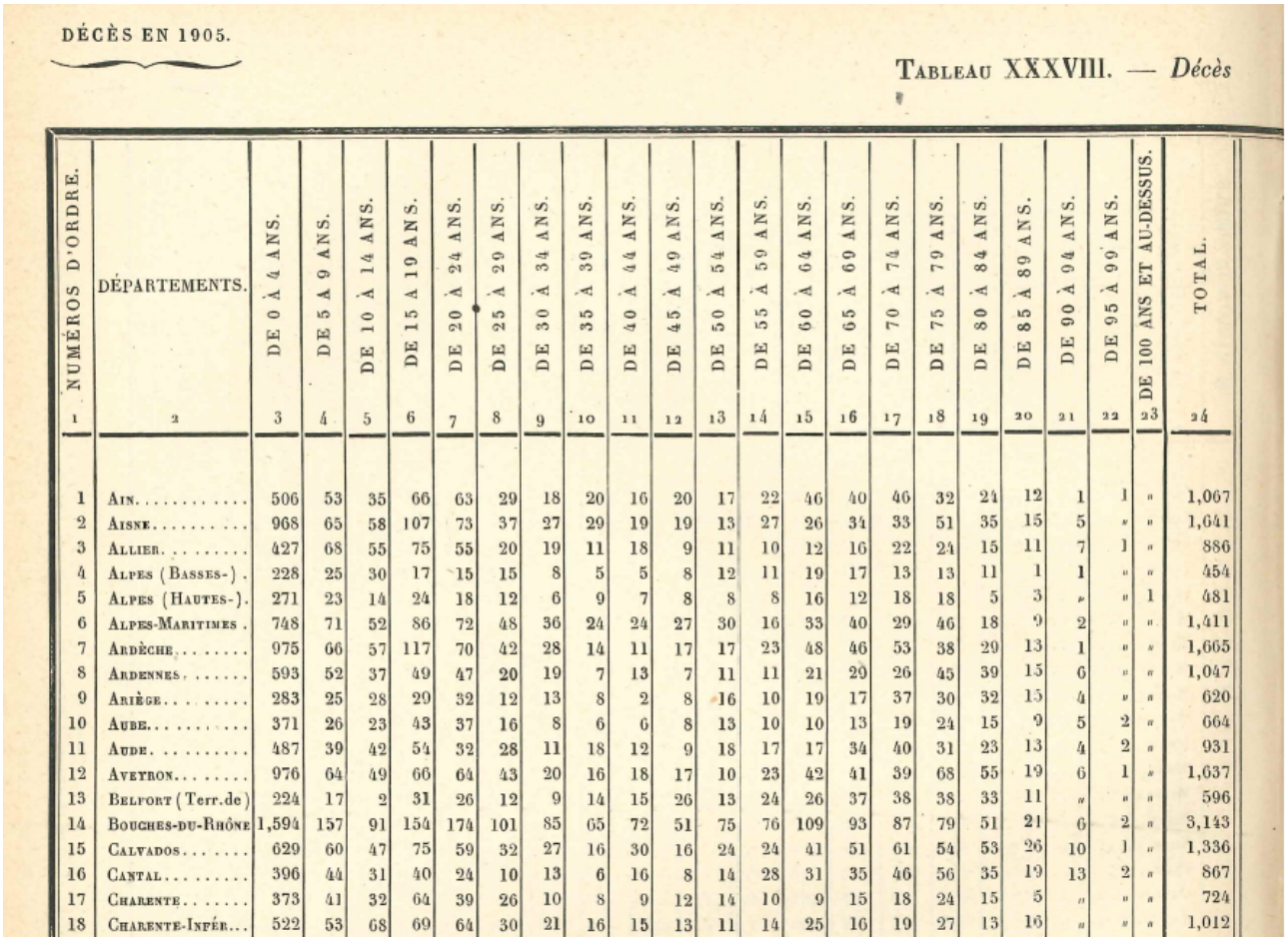
- **Open-access database with a dedicated website (as CHMD)**



Canadian Human Mortality Database.
Available at: `http://www.bdlc.umontreal.ca/`.

Raw data used: an exemple for civil deaths

- **A huge number of archives digitized to compute lifetables**



DÉCÈS EN 1905.

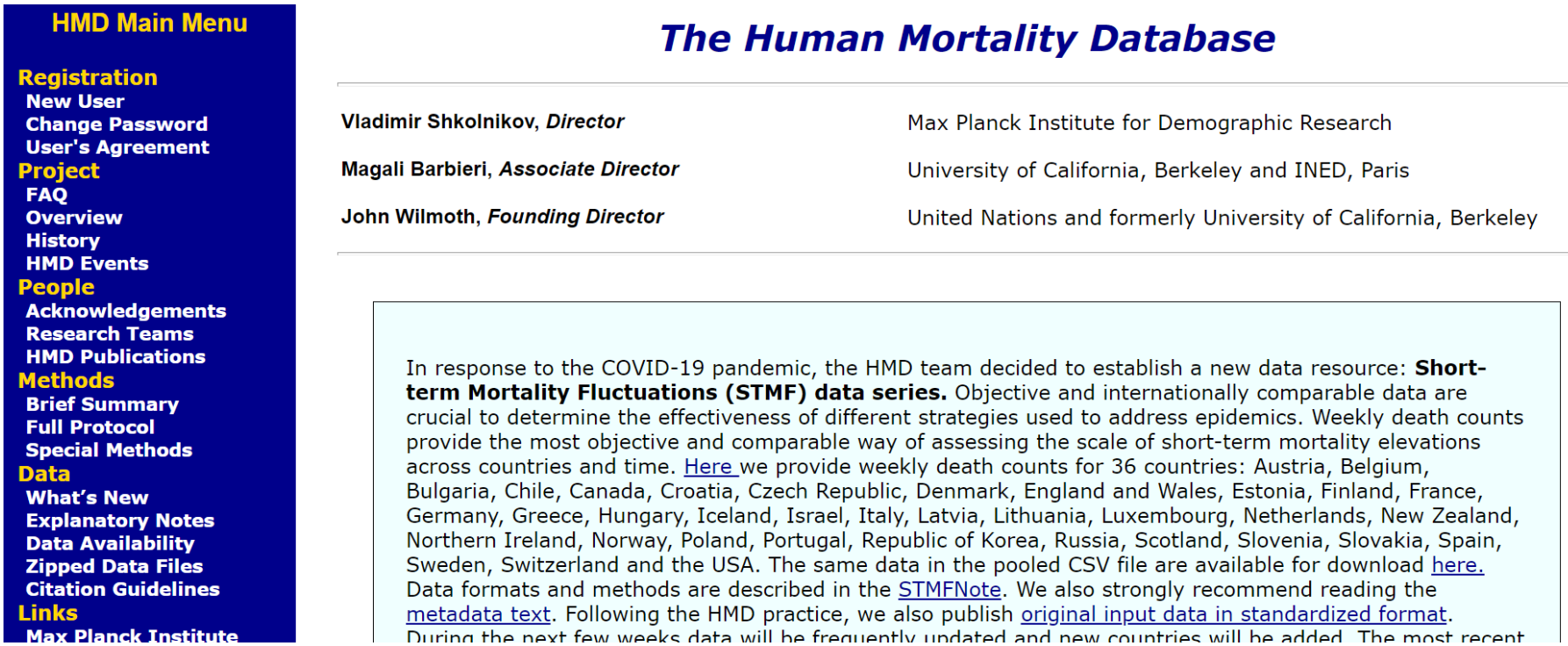
TABLEAU XXXVIII. — *Décès*

NUMÉROS D'ORDRE.	DÉPARTEMENTS.	DE 0 À 4 ANS.	DE 5 À 9 ANS.	DE 10 À 14 ANS.	DE 15 À 19 ANS.	DE 20 À 24 ANS.	DE 25 À 29 ANS.	DE 30 À 34 ANS.	DE 35 À 39 ANS.	DE 40 À 44 ANS.	DE 45 À 49 ANS.	DE 50 À 54 ANS.	DE 55 À 59 ANS.	DE 60 À 64 ANS.	DE 65 À 69 ANS.	DE 70 À 74 ANS.	DE 75 À 79 ANS.	DE 80 À 84 ANS.	DE 85 À 89 ANS.	DE 90 À 94 ANS.	DE 95 À 99 ANS.	DE 100 ANS ET AU-DESSUS.	TOTAL.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	AIN	506	53	35	66	63	29	18	20	16	20	17	22	46	40	46	32	24	12	1	1	"	1,067
2	AISNE	968	65	58	107	73	37	27	29	19	19	13	27	26	34	33	51	35	15	5	"	"	1,641
3	ALLIER	427	68	55	75	55	20	19	11	18	9	11	10	12	16	22	24	15	11	7	1	"	886
4	ALPES (BASSES-)	228	25	30	17	15	15	8	5	5	8	12	11	19	17	13	13	11	1	1	"	"	454
5	ALPES (HAUTES-)	271	23	14	24	18	12	6	9	7	8	8	8	16	12	18	18	5	3	"	"	1	481
6	ALPES-MARITIMES	748	71	52	86	72	48	36	24	24	27	30	16	33	40	29	46	18	9	2	"	"	1,411
7	ARDÈCHE	975	66	57	117	70	42	28	14	11	17	17	23	48	46	53	38	29	13	1	"	"	1,665
8	ARDENNES	593	52	37	49	47	20	19	7	13	7	11	11	21	20	26	45	39	15	6	"	"	1,047
9	ARIÈGE	283	25	28	29	32	12	13	8	2	8	16	10	19	17	37	30	32	15	4	"	"	620
10	AUBE	371	26	23	43	37	16	8	6	6	8	13	10	10	13	19	24	15	9	5	2	"	664
11	AUDE	487	39	42	54	32	28	11	18	12	9	18	17	17	34	40	31	23	13	4	2	"	931
12	AVEYRON	976	64	49	66	64	43	20	16	18	17	10	23	42	41	39	68	55	19	6	1	"	1,637
13	BELFORT (Terr.de)	224	17	2	31	26	12	9	14	15	26	13	24	26	37	38	38	33	11	"	"	"	596
14	BOUCHES-DU-RHÔNE	1,594	157	91	154	174	101	85	65	72	51	75	76	109	93	87	79	51	21	6	2	"	3,143
15	CALVADOS	629	60	47	75	59	32	27	16	30	16	24	24	41	51	61	54	53	26	10	1	"	1,336
16	CANTAL	396	44	31	40	24	10	13	6	16	8	14	28	31	35	46	56	35	19	13	2	"	867
17	CHARENTE	373	41	32	64	39	26	10	8	9	12	14	10	9	15	18	24	15	5	"	"	"	724
18	CHARENTE-INFÉR...	522	53	68	69	64	30	21	16	15	13	11	14	25	16	19	27	13	16	"	"	"	1,012

Deaths of women in 1905, *Mouvement de la population*, *Statistique Générale de la France*.

Methods used: the HMD protocol

- **The HMD protocol was mainly used to get French lifetables at the department level**



HMD Main Menu

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Max Planck Institute

The Human Mortality Database

Vladimir Shkolnikov, *Director* — Max Planck Institute for Demographic Research
Magali Barbieri, *Associate Director* — University of California, Berkeley and INED, Paris
John Wilmoth, *Founding Director* — United Nations and formerly University of California, Berkeley

In response to the COVID-19 pandemic, the HMD team decided to establish a new data resource: **Short-term Mortality Fluctuations (STMF) data series.** Objective and internationally comparable data are crucial to determine the effectiveness of different strategies used to address epidemics. Weekly death counts provide the most objective and comparable way of assessing the scale of short-term mortality elevations across countries and time. Here we provide weekly death counts for 36 countries: Austria, Belgium, Bulgaria, Chile, Canada, Croatia, Czech Republic, Denmark, England and Wales, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Israel, Italy, Latvia, Lithuania, Luxembourg, Netherlands, New Zealand, Northern Ireland, Norway, Poland, Portugal, Republic of Korea, Russia, Scotland, Slovenia, Slovakia, Spain, Sweden, Switzerland and the USA. The same data in the pooled CSV file are available for download here. Data formats and methods are described in the STMFNote. We also strongly recommend reading the metadata text. Following the HMD practice, we also publish original input data in standardized format. During the next few weeks data will be frequently updated and new countries will be added. The most recent

Human Mortality Database.
Available at `https://www.mortality.org/`.

Methods used: specificities of French departments

- **Specific methods were used too to consider French specificities**

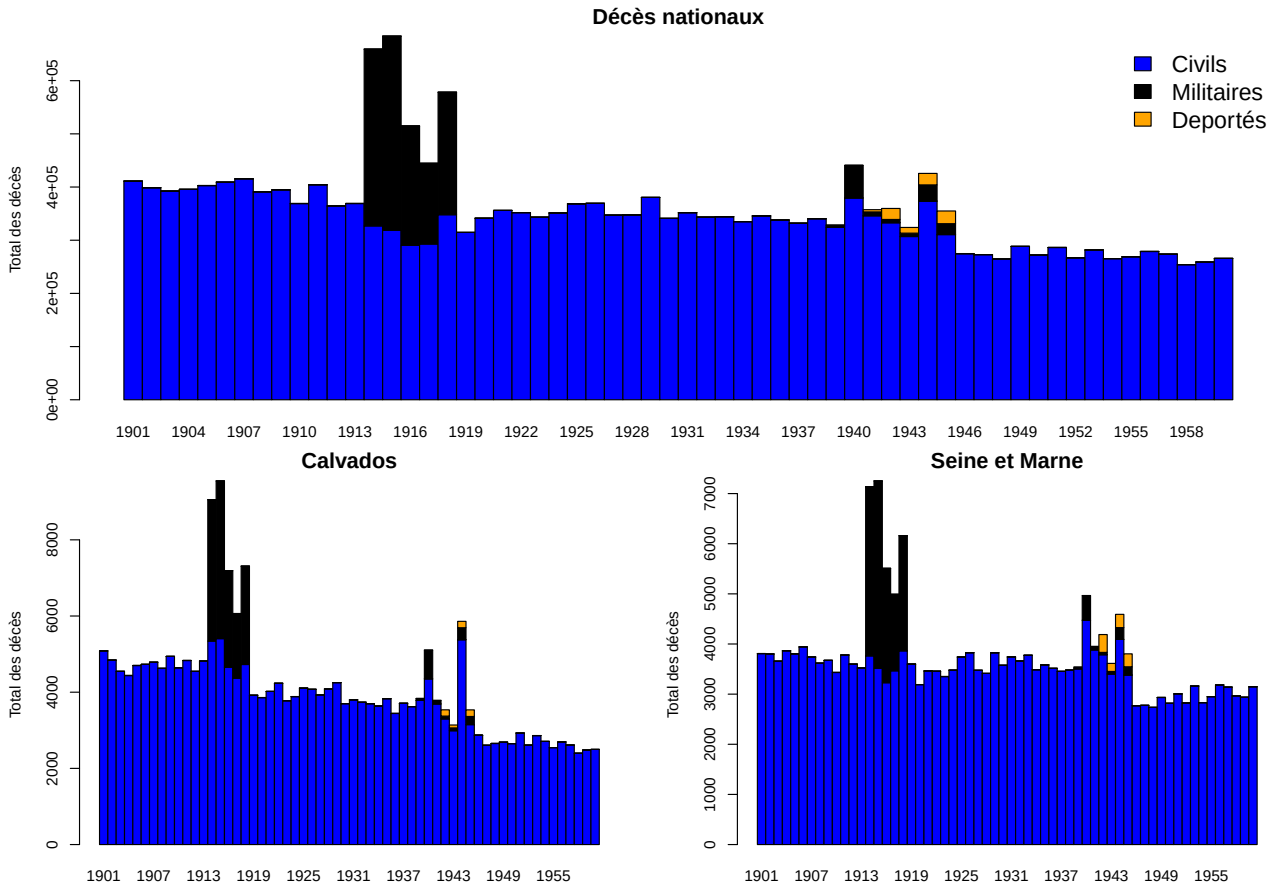


Figure: Civilian and military deaths at national and local level.
Source: French Human Mortality Database.

Available data

- **Lifetables for each year, gender and French department between 1901 and 2015.**

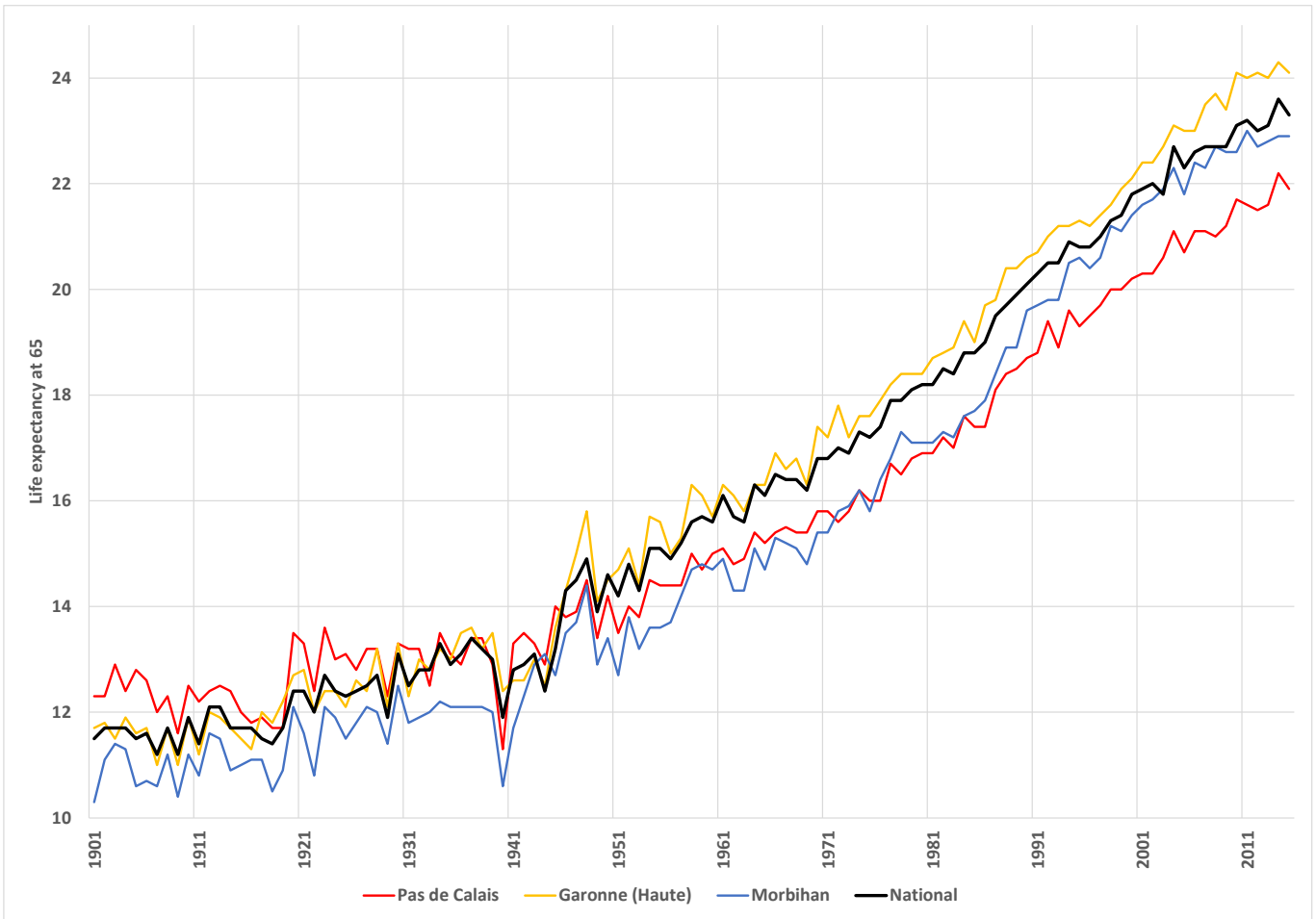
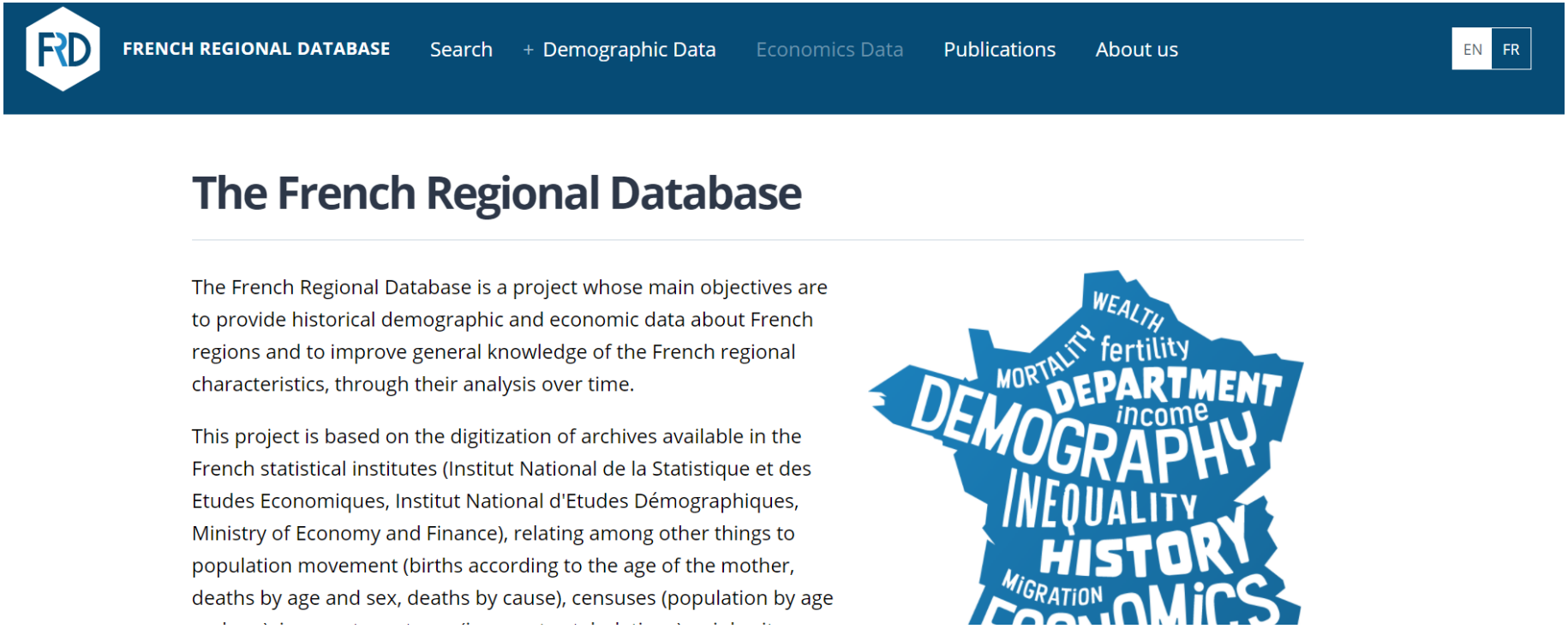


Figure: Life expectancy at age 65, women. Source: French Human Mortality Database.

A dedicated website to get the lifetables: the FRD

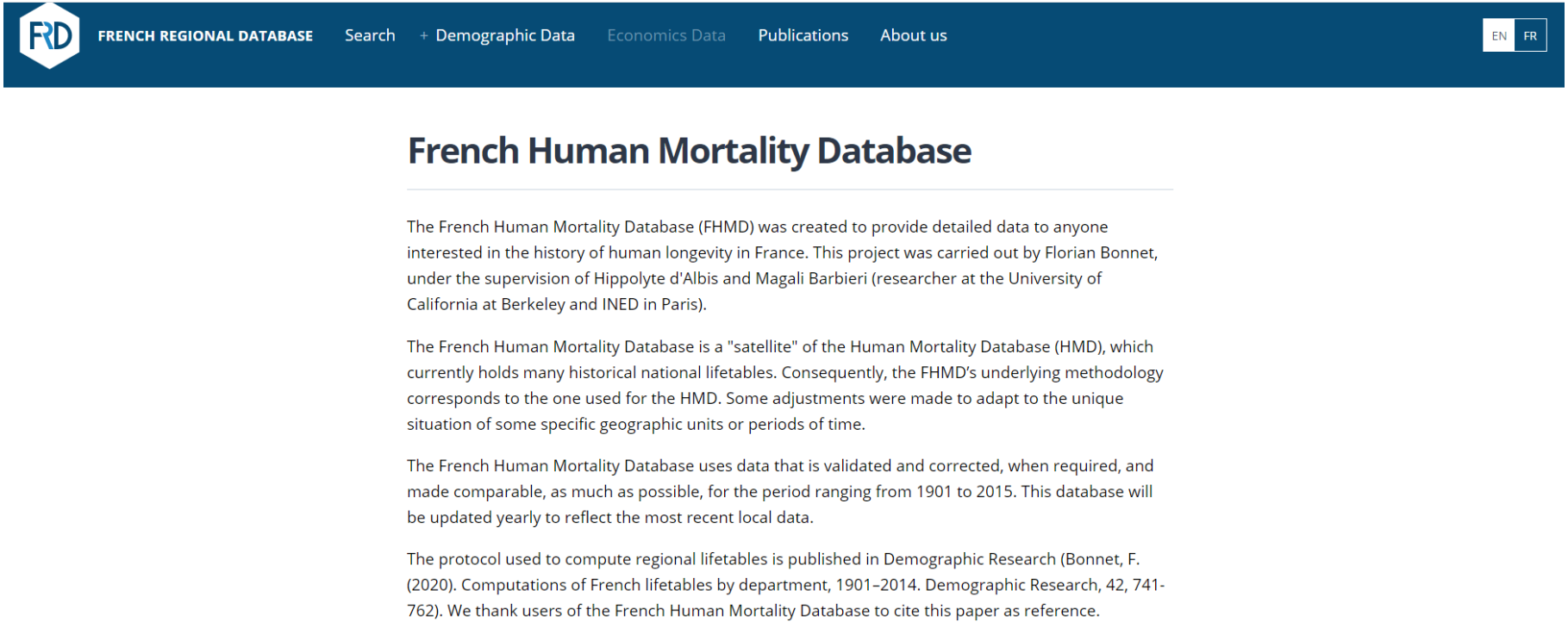
- **A dedicated website for economic and demographic data at the local level in France**



Source: French Regional Database.
Available at: `https://frdata.org/en/french-human-mortality-database/`.

A dedicated website to get the lifetables: the FHMD

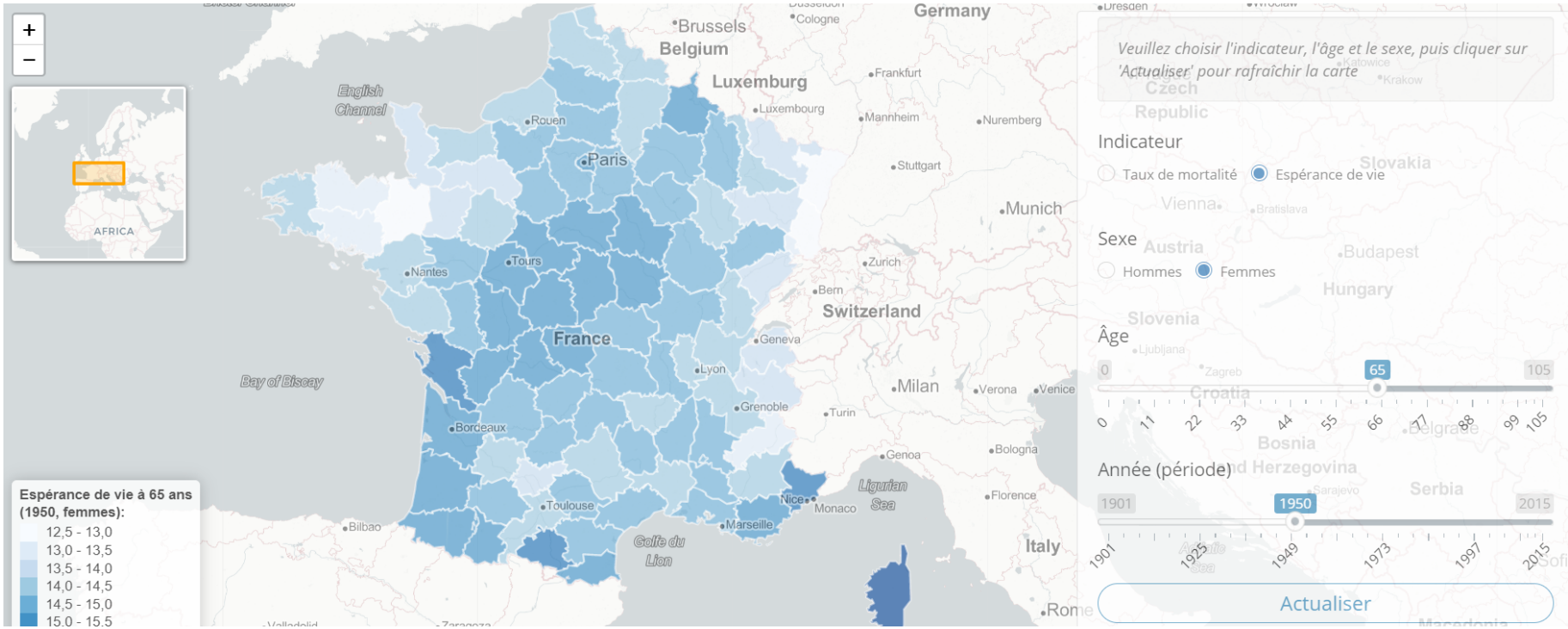
- **A dedicated website for lifetables at the local level in France**



Source: French Human Mortality Database.
Available at: `https://frdata.org/en/french-human-mortality-database/`.

A dedicated website to see the results (1)

- **Tool for specific comparisons: maps of mortality.**

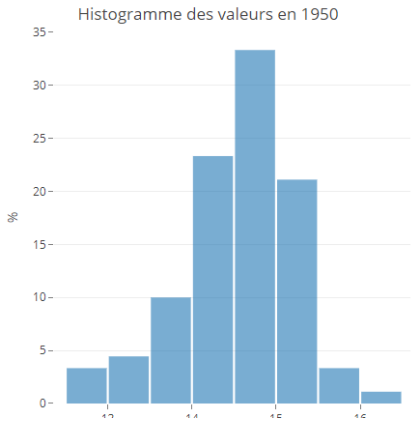


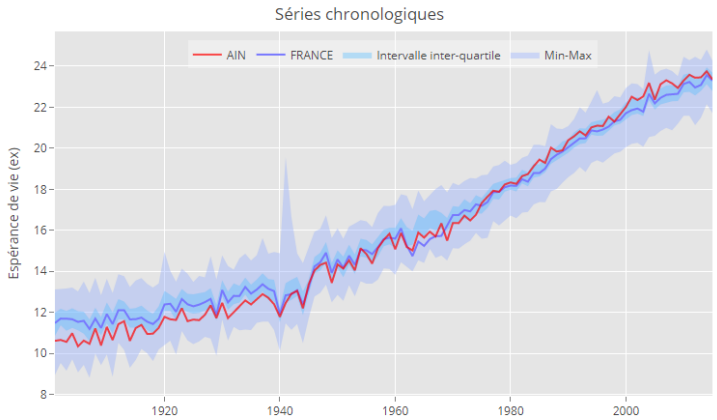
Source: French Human Mortality Database.
Available at: `https://shiny.demog.berkeley.edu/hmd/FMDB_MapApp/`.

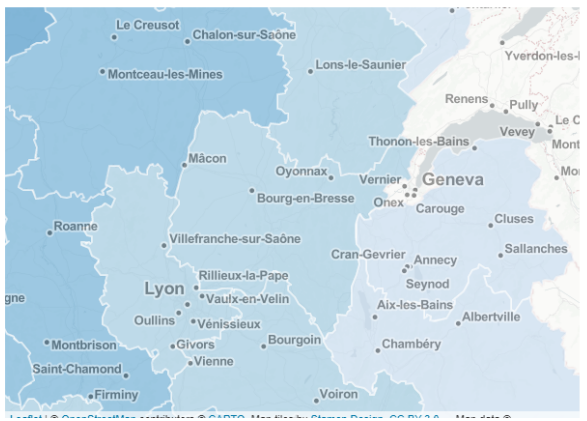
A dedicated website to see the results (2)

- **Tool for specific comparisons: temporal trends of mortality.**

Département	Code	Âge	Taux de mortalité pour 1000 habitants	Espérance de vie à (x) an(s)
AIN	01	65	20	14,336
AISNE	02	65	22	14,352
ALLIER	03	65	17	14,994
ALPES-DE-HAUTE-PROVENCE	04	65	18	14,386
ALPES-MARITIMES	06	65	17	15,970
ARDECHE	07	65	19	14,807
ARDENNES	08	65	20	15,138
ARIEGE	09	65	16	15,594
AUBE	10	65	18	14,983







Source: French Human Mortality Database.
Available at: `https://shiny.demog.berkeley.edu/hmd/FMDB_MapApp/`.

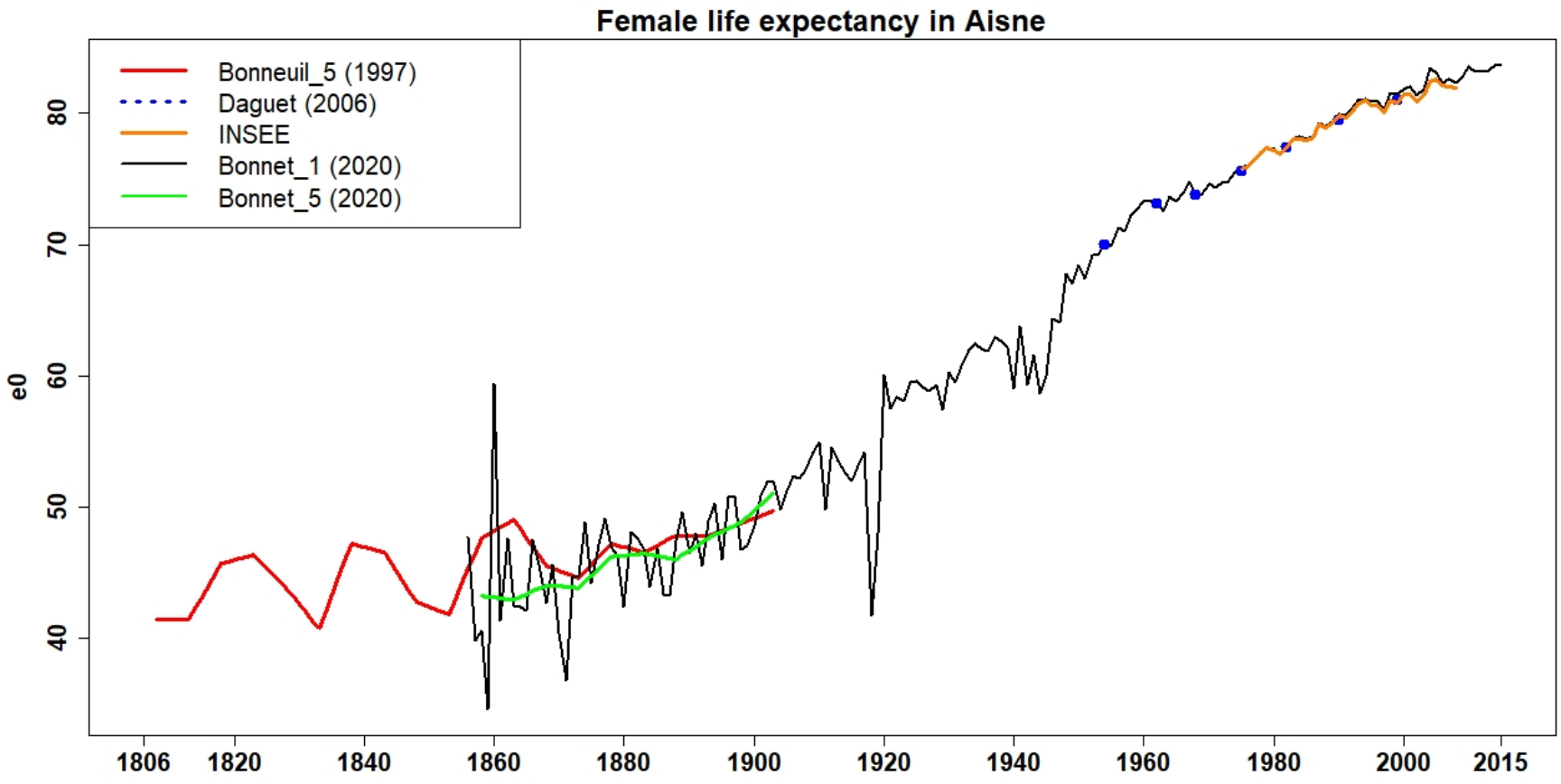
Methodological papers

- **A documentation to get all the methodological details of computations**

Source: Demographic Research.
Available at: `https://www.demographic-research.org/`.

Future extensions: 1856-2015

- **An extension of the database for the period 1856-1900**



Source: Own calculations.

Future extensions: 1901-2018

- **An extension of the database for the period 2016-2018**

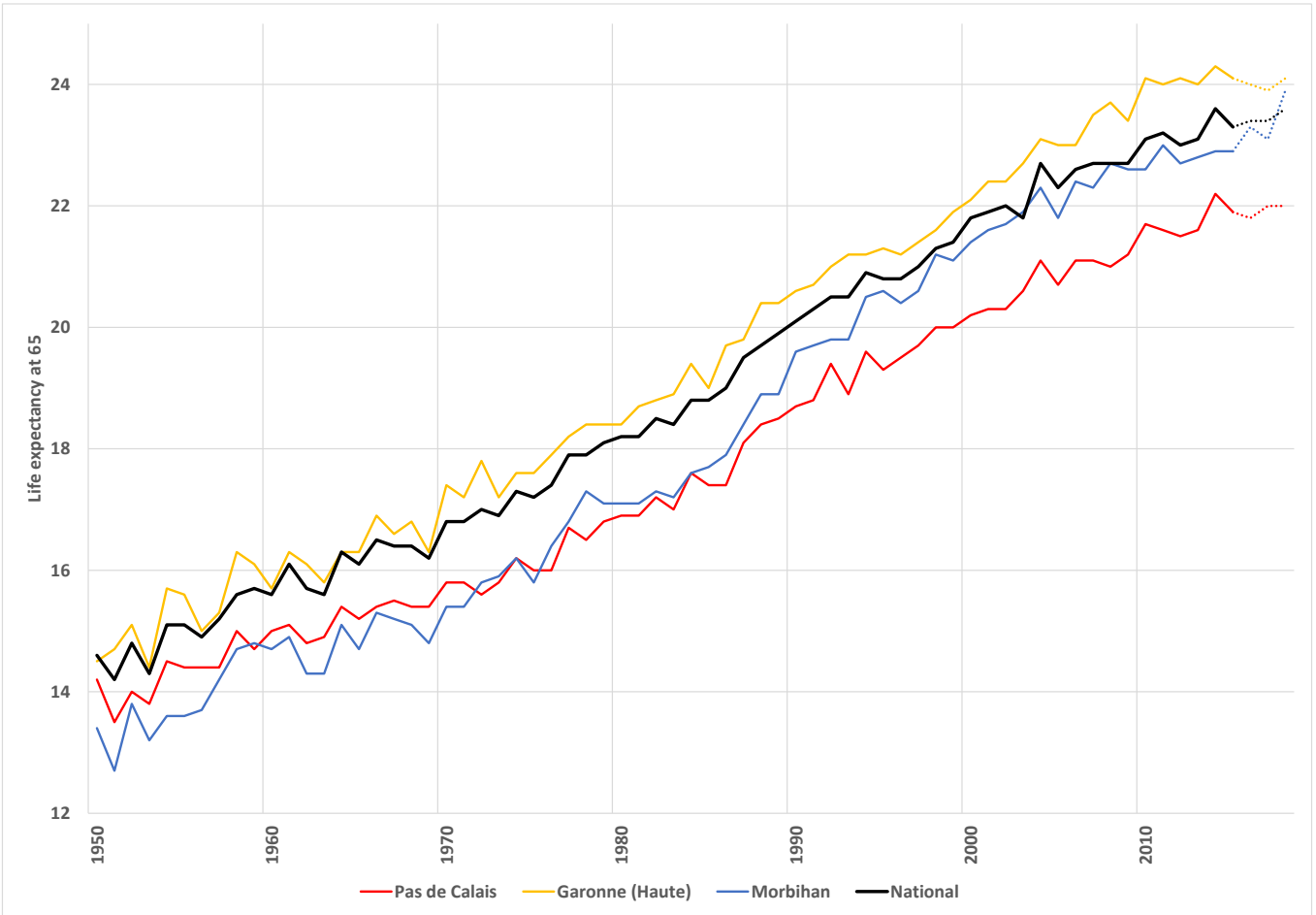


Figure: Life expectancy at age 65, women.
Source: French Human Mortality Database and own calculations.

Future extensions: lifetables for both sexes

- **Lifetables for both sexes combined ; raw data on website**

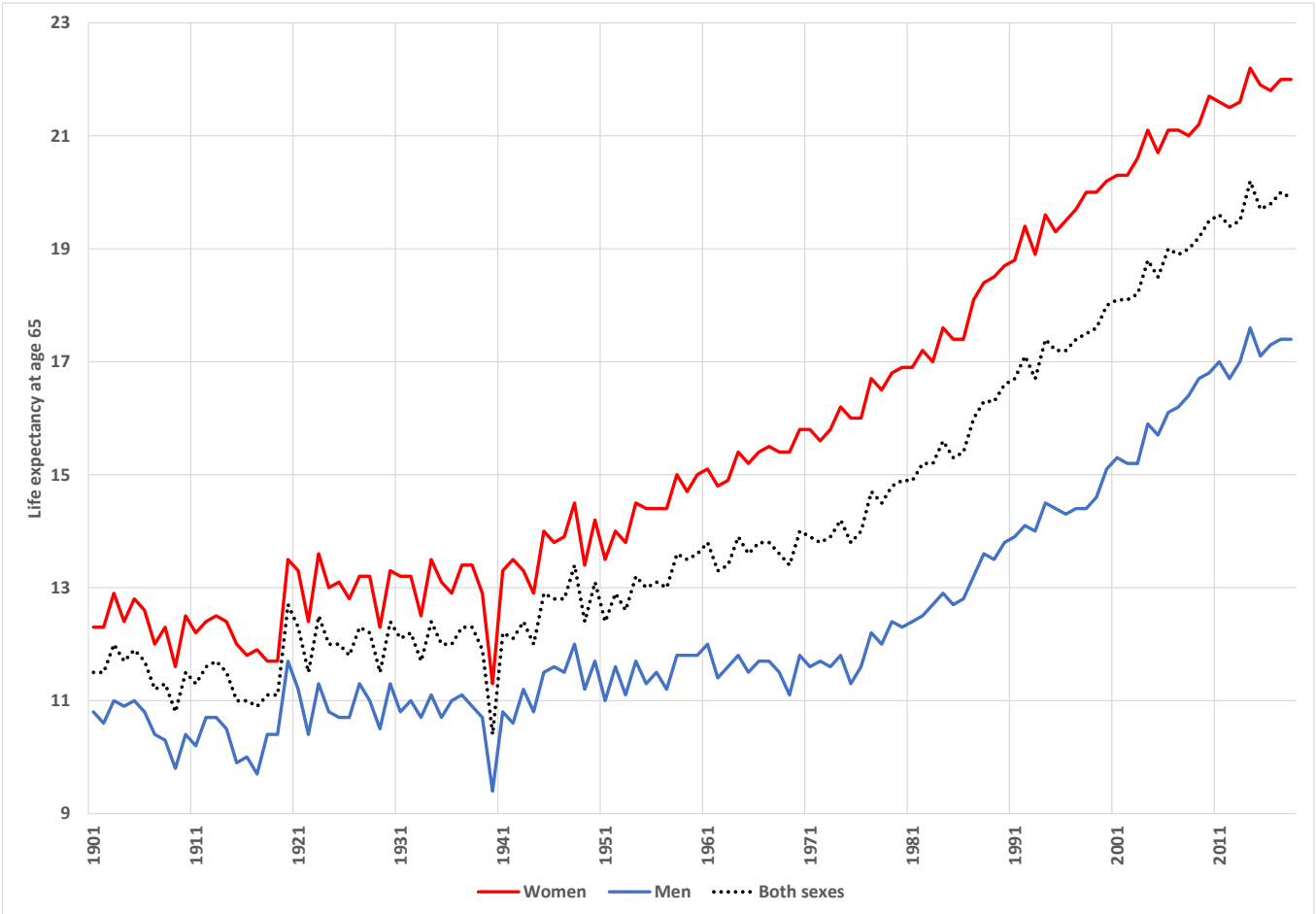


Figure: Life expectancy at age 65 in *Pas-de-Calais*, by gender.
Source: French Human Mortality Database.

Future extensions: bayesian estimations

- **Lifetables computed with HMD protocol and Alexander et al. (2019) bayesian model**

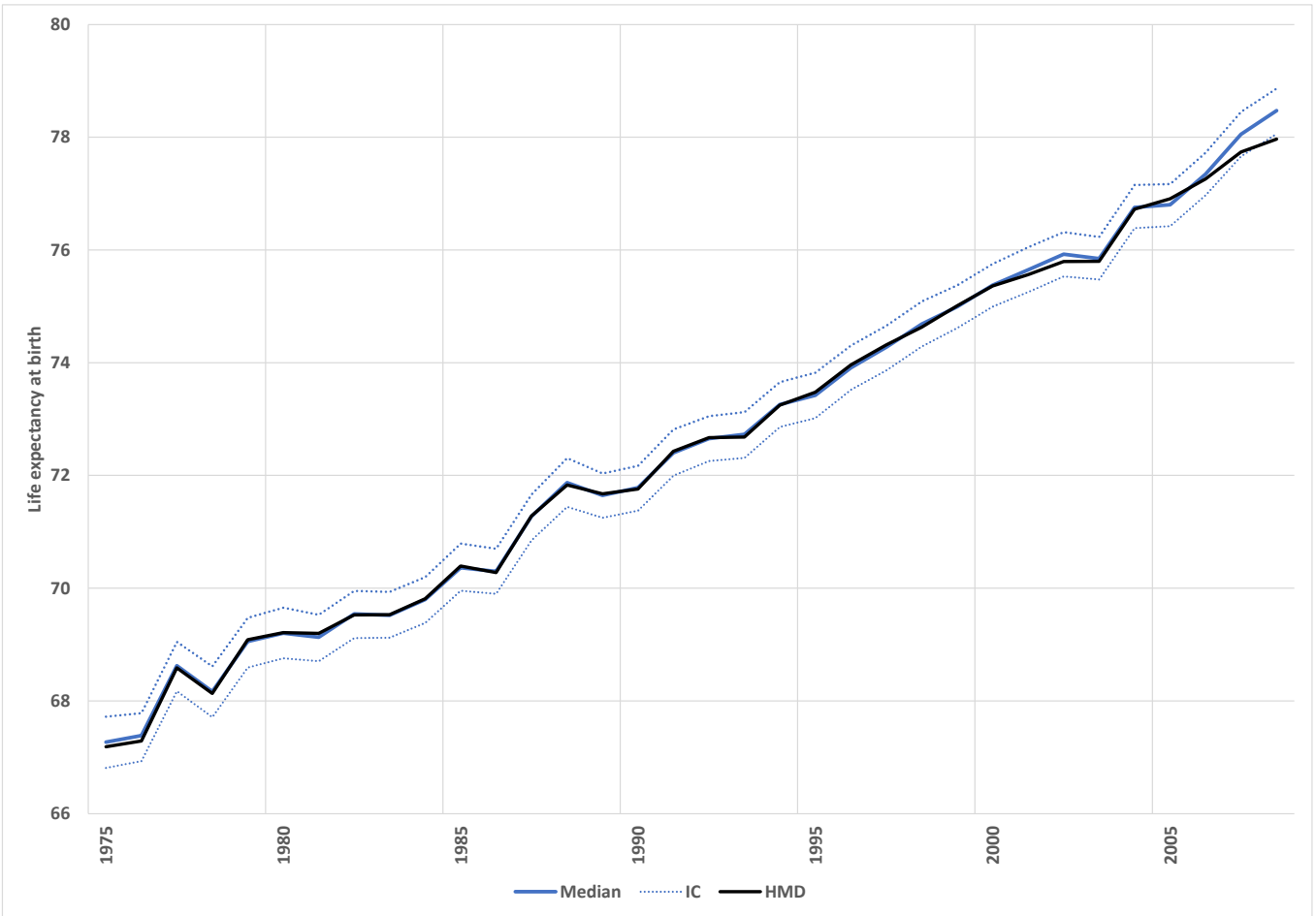


Figure: Life expectancy at birth in *Bas-Rhin*, women. Source: Own calculations