

Title	Research Questions	1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France
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BIOSCIENCE PROJECT

Sars-Cov-2: an european sentimental story

MATTIA VENTOLA 812475

ALESSANDRO MOTTA 812309

Title	Research Questions	1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France
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RESEARCH QUESTIONS

- 1. How much did Covid-19 affect the **emotion** of european people?
- 2. How has the progression of the **vaccination campaign** affected people’s emotions?
- 3. How much has Covid-19 changed the **quality of life** in the italian regions?
- 4. Which of the European states has **studied** Covid-19 the most?
- 5. Which are the **scientific journals** that have mostly dealt with the relationship between emotions and Covid-19?

Title	Research Questions	1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France
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RESEARCH QUESTION

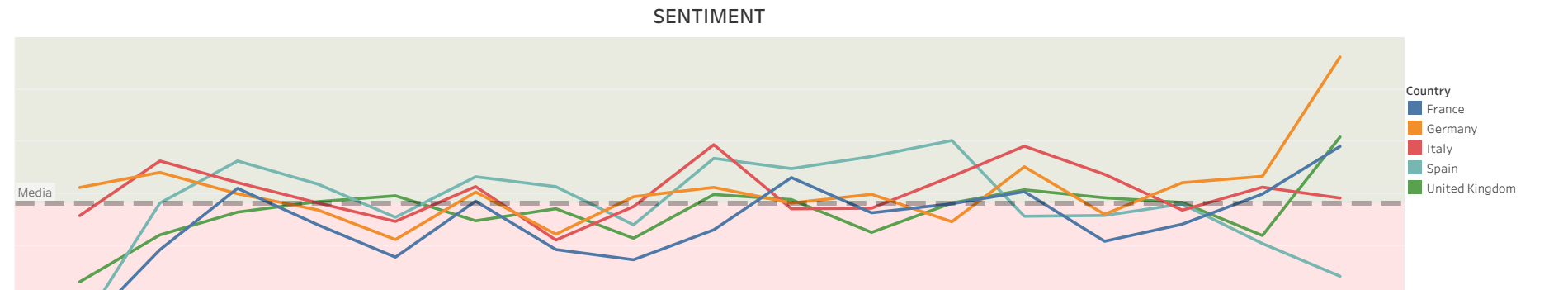
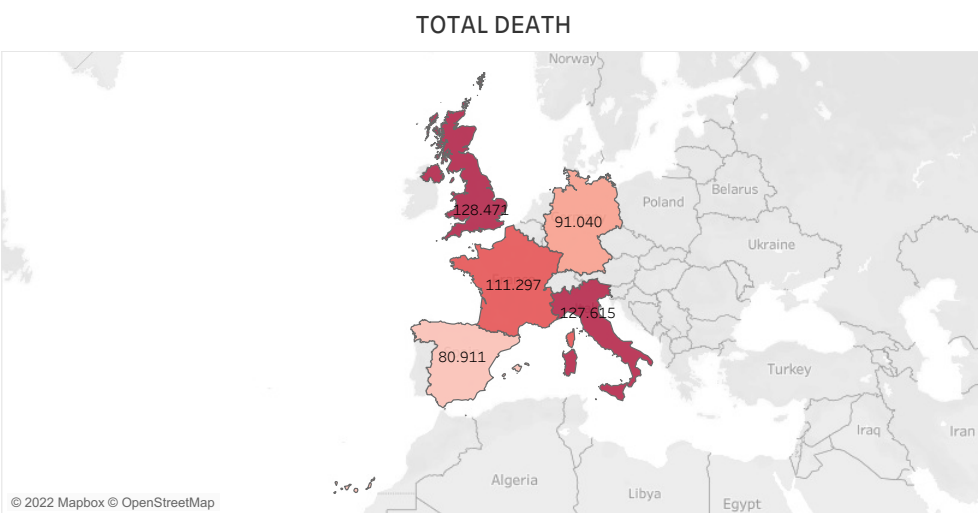
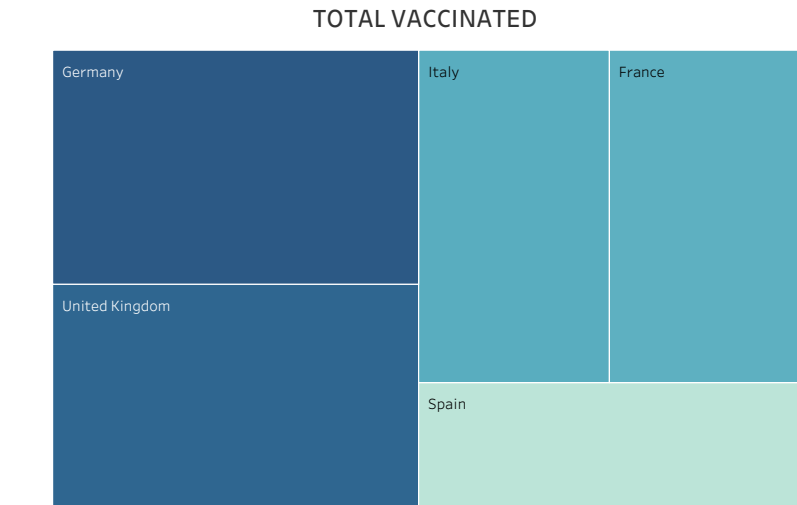
1. How much did Covid-19 affect the **emotions** of european people?

DATA

1. **Tweets** ID from "IEEE"
2. **Epidemiological** data from "ECDC"

Covid-19 European Sentiment Story

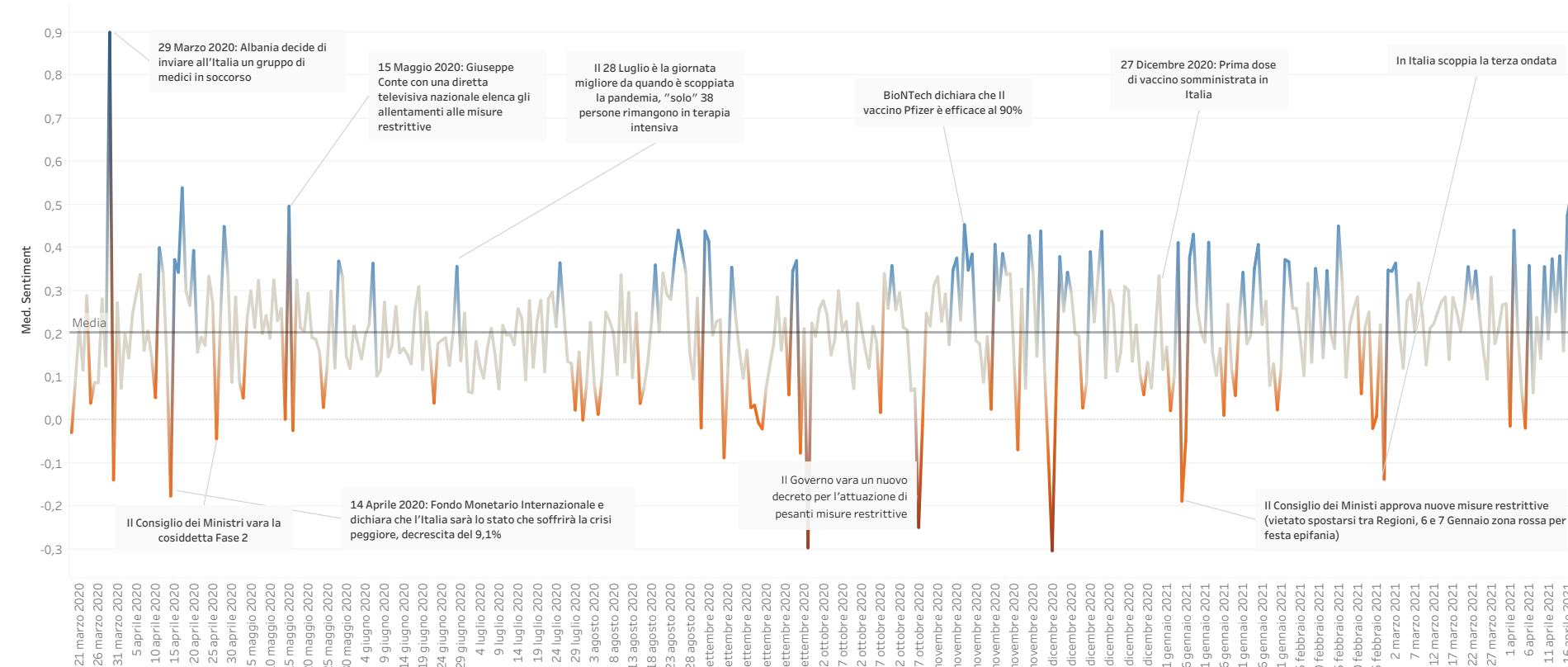
Title	Research Questions	1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France
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Covid-19 European Sentiment Story

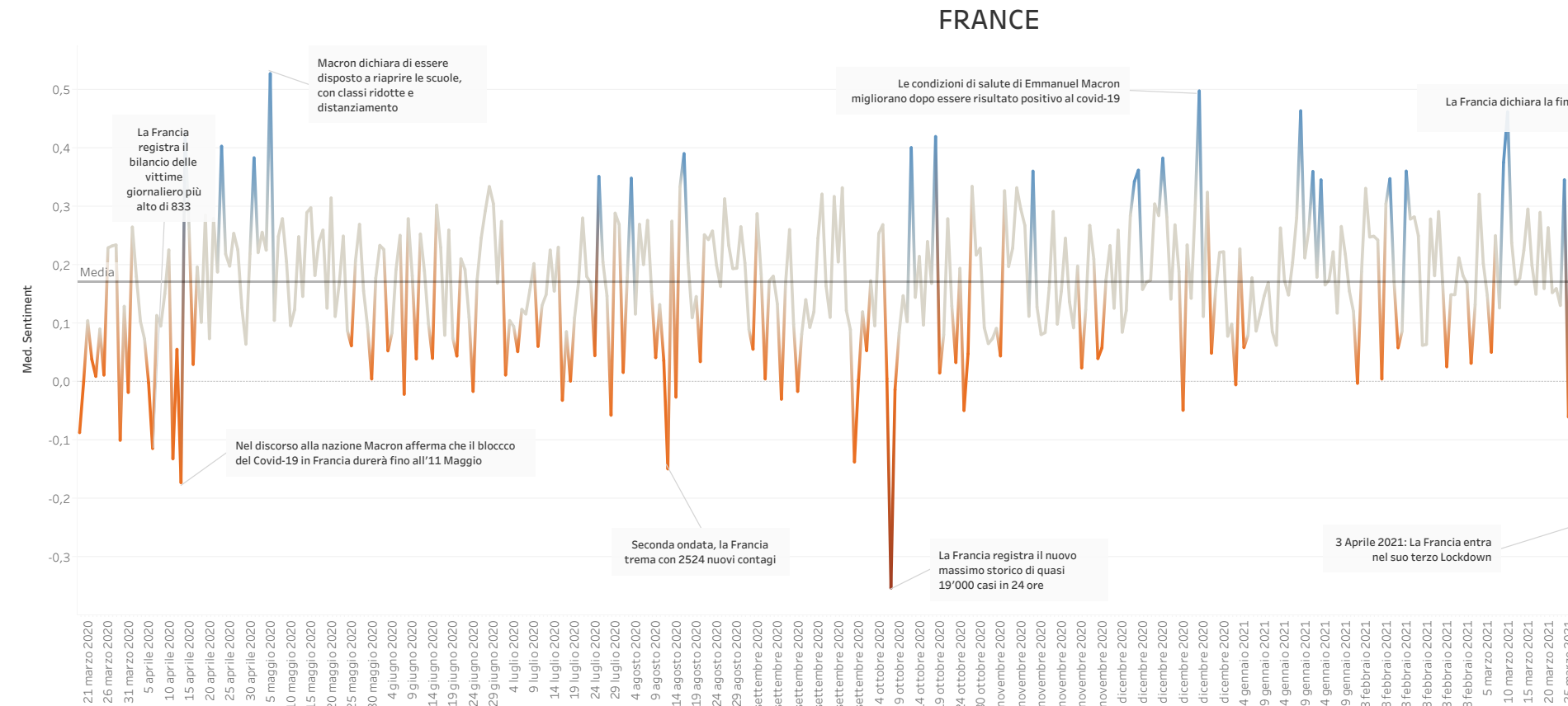
Title	Research Questions	1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France
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ITALY



Covid-19 European Sentiment Story

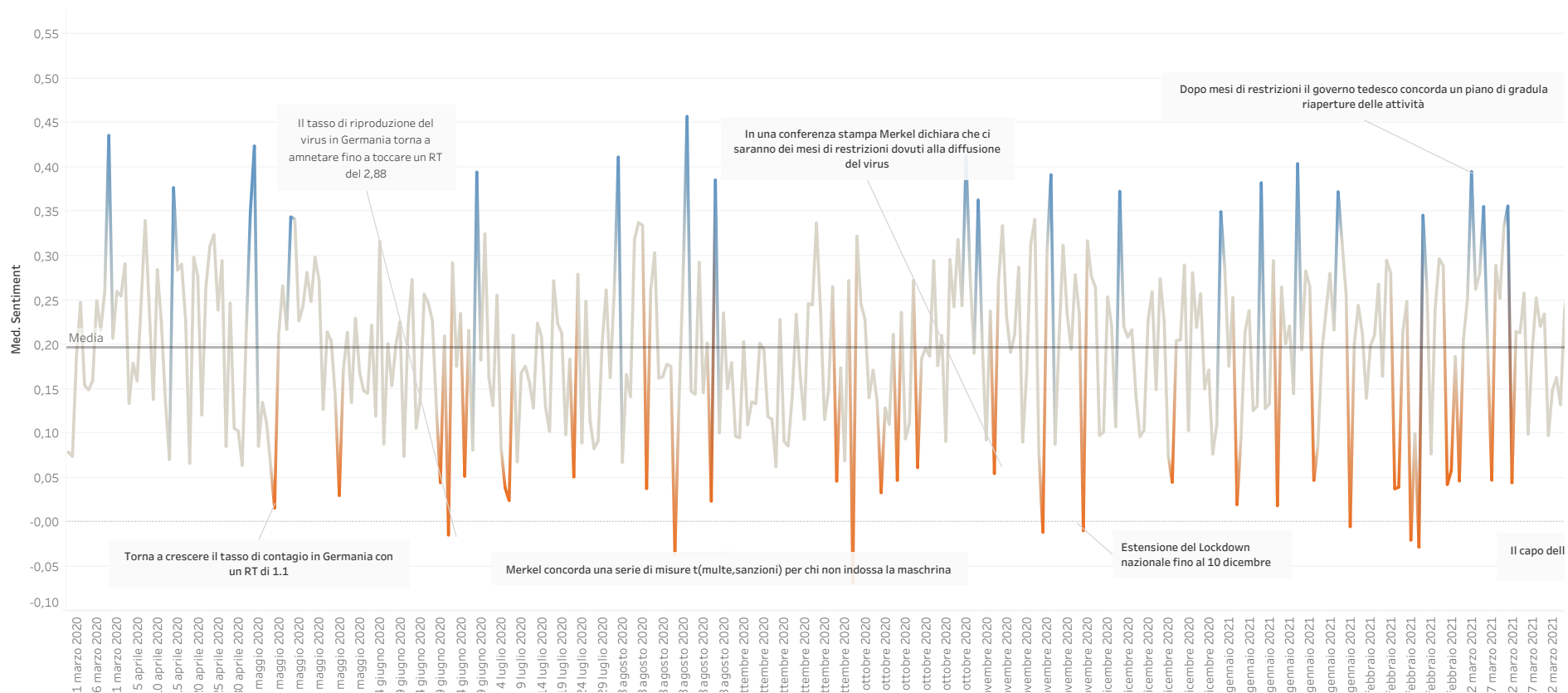
Title	Research Questions	1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France
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Covid-19 European Sentiment Story

Research Questions	1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France	Fear UK
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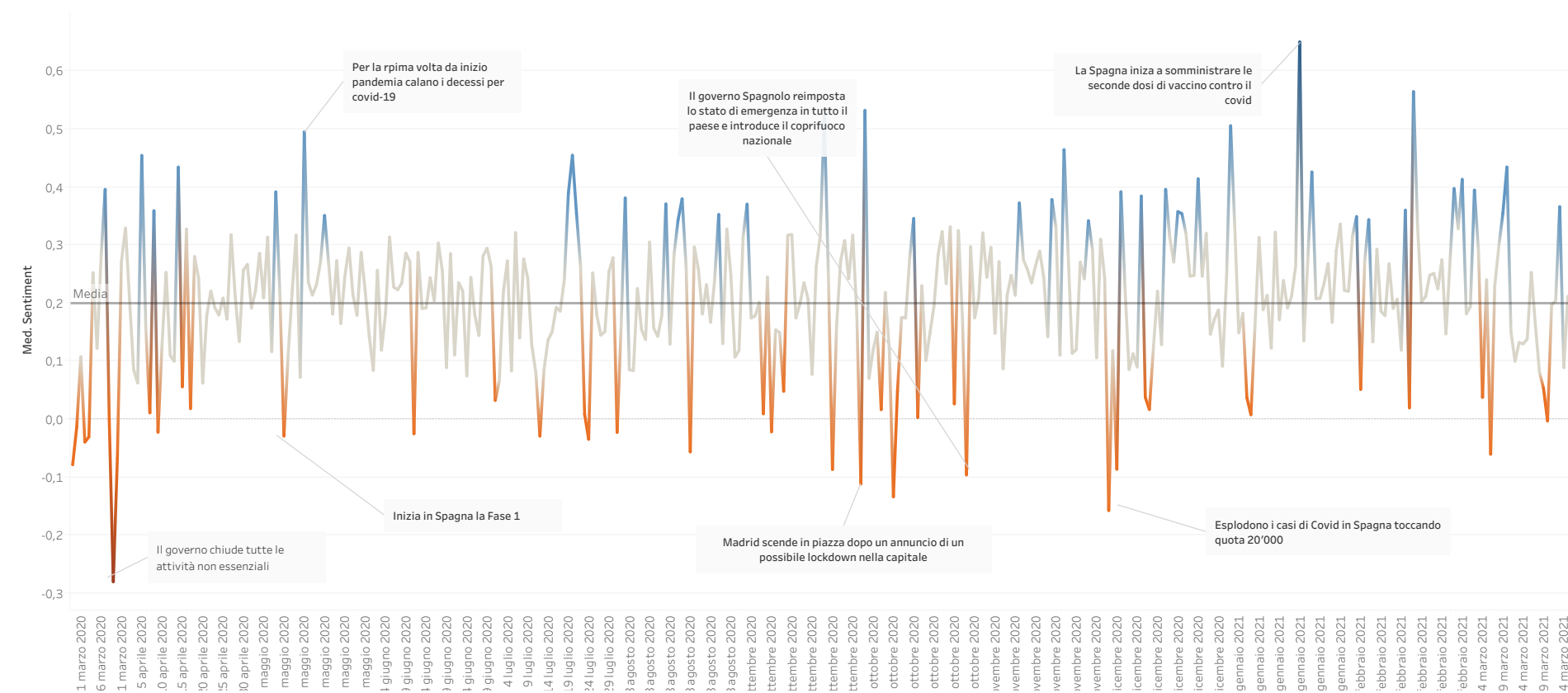
GERMANY



Covid-19 European Sentiment Story

1. Sentiment	Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France	Fear UK	Fear Spain
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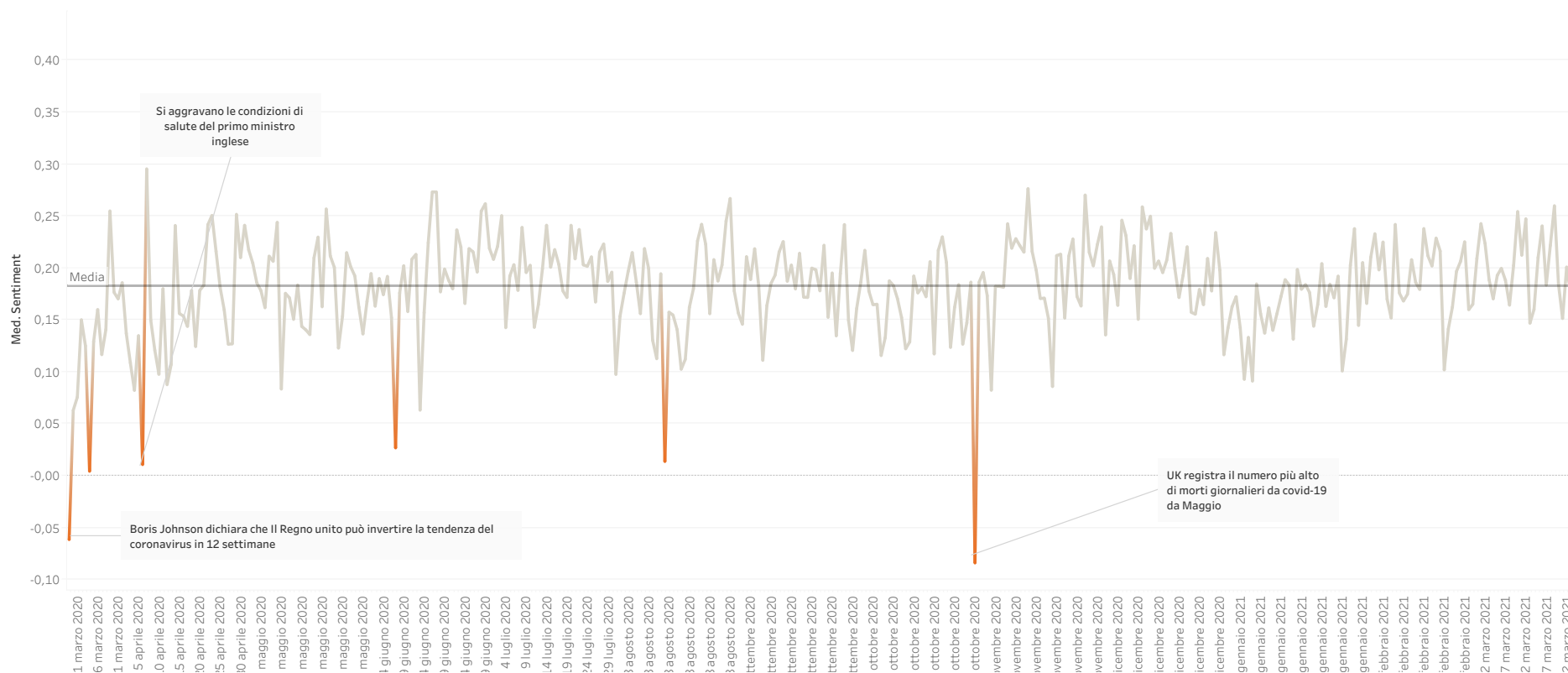
SPAIN



Covid-19 European Sentiment Story

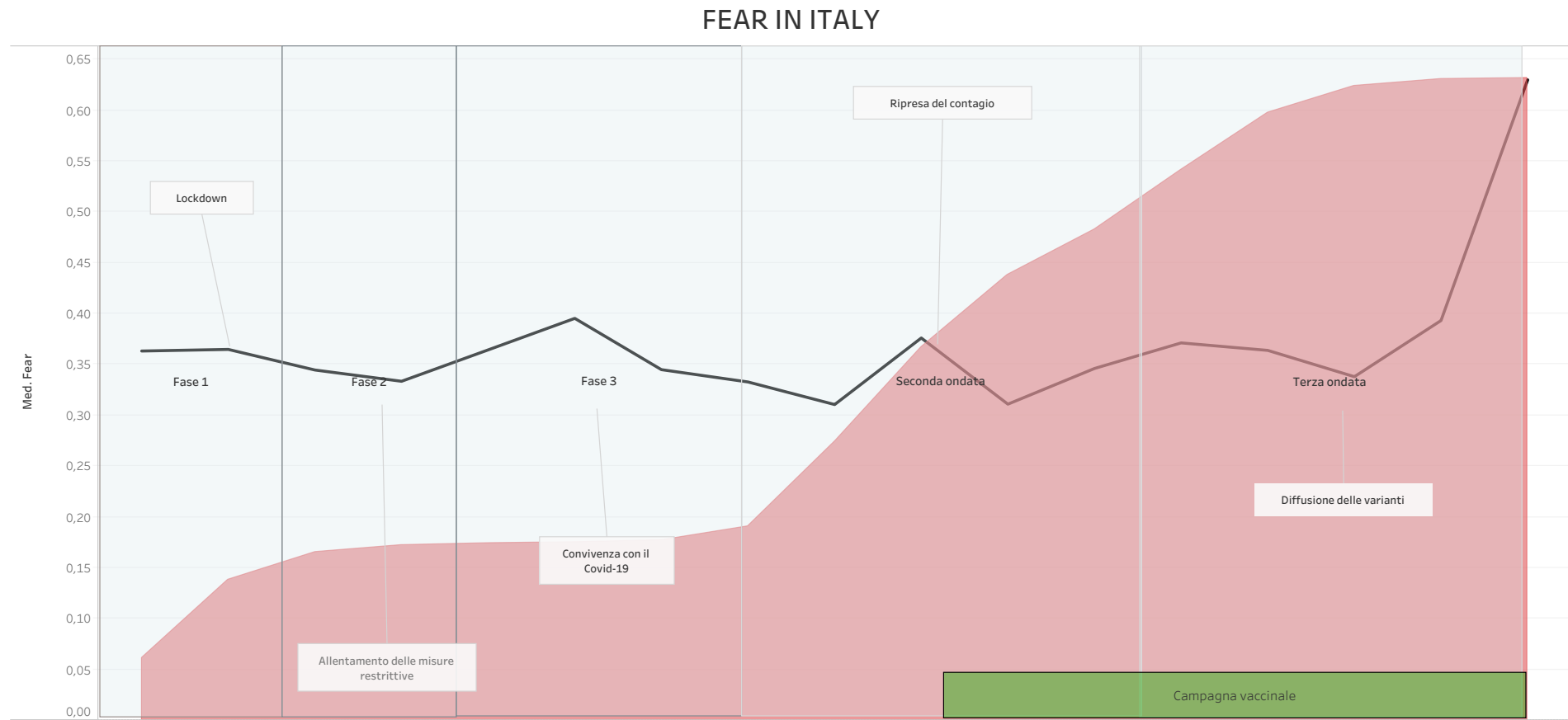
Overview	Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France	Fear UK	Fear Spain	Fear Germany
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UNITED KINGDOM



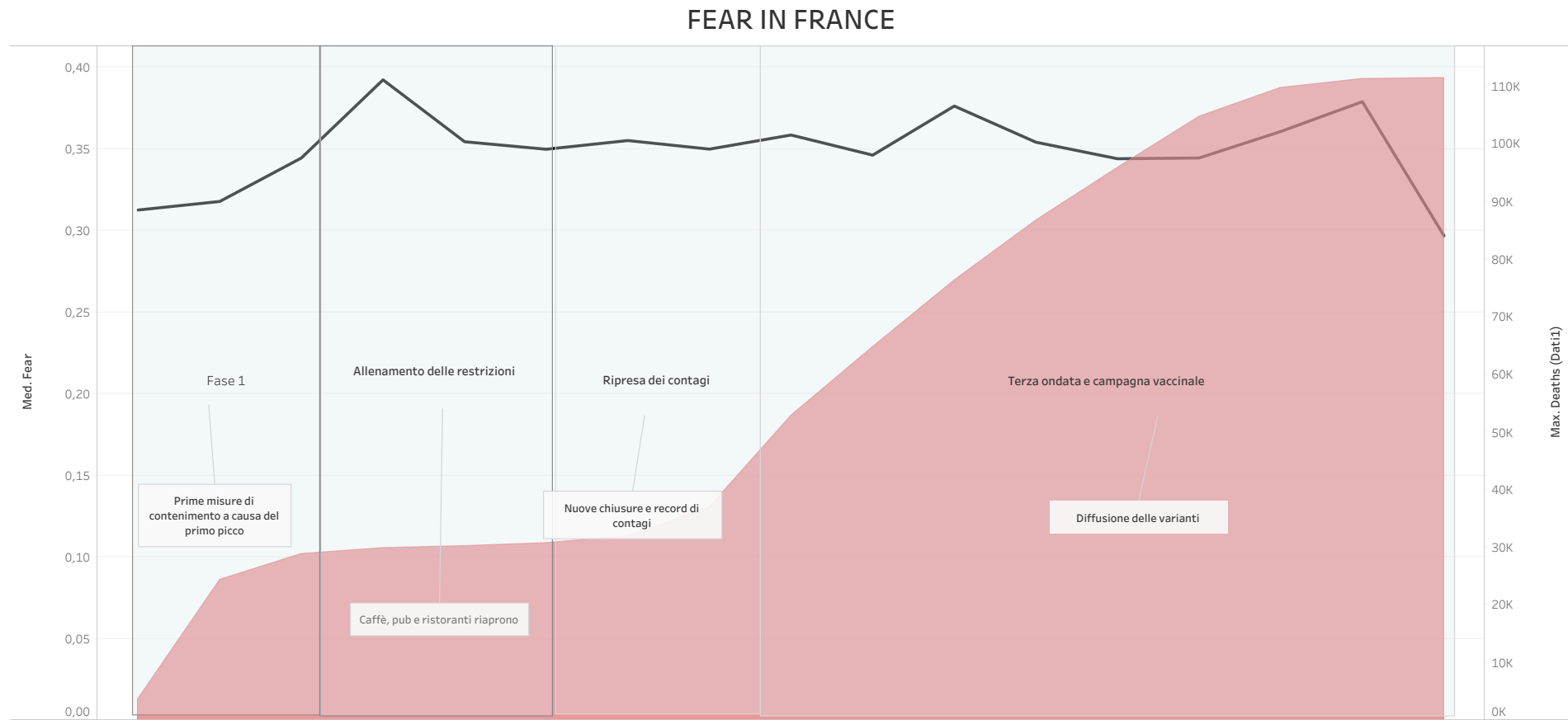
Covid-19 European Sentiment Story

Polarity Italy	Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France	Fear UK	Fear Spain	Fear Germany	2. Vaccine
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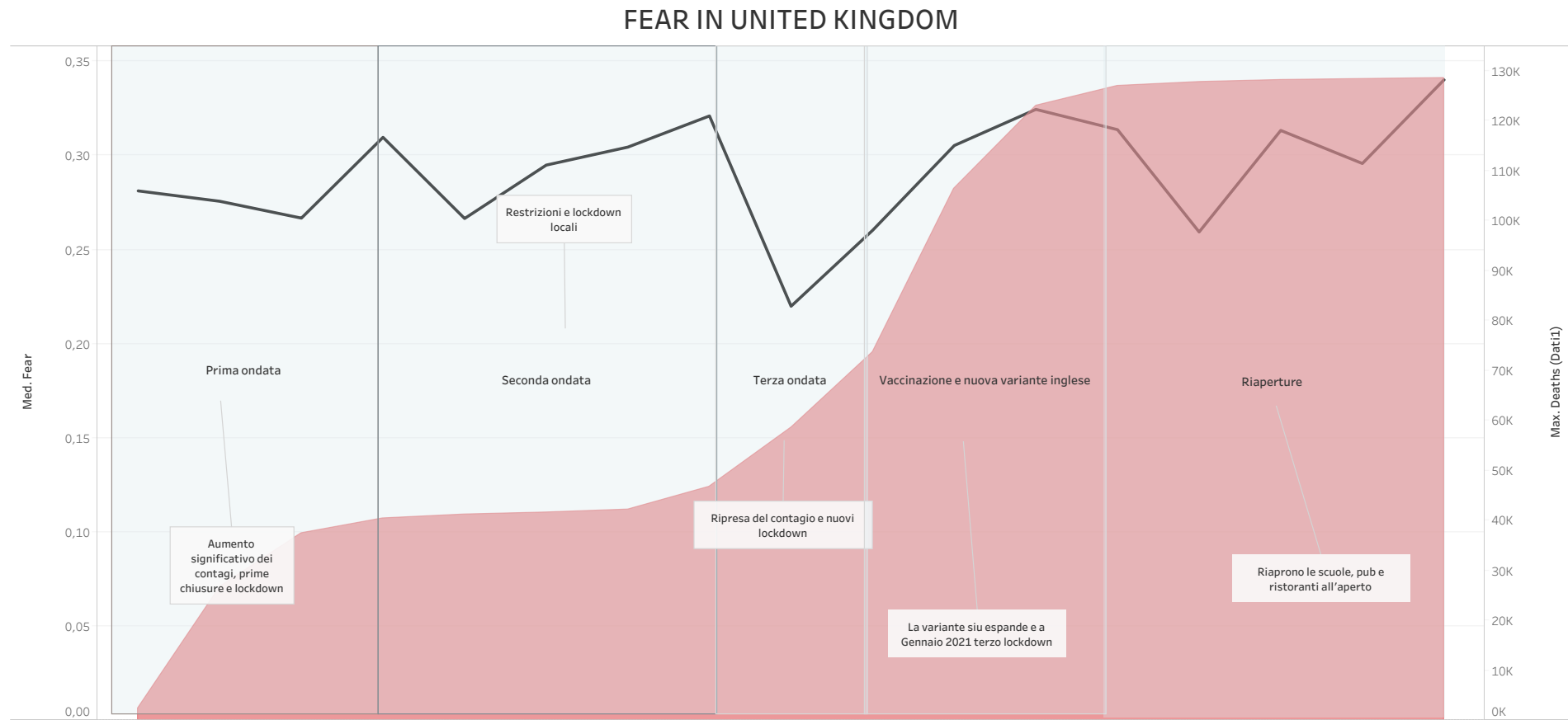
Covid-19 European Sentiment Story

Polarity France	Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France	Fear UK	Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated
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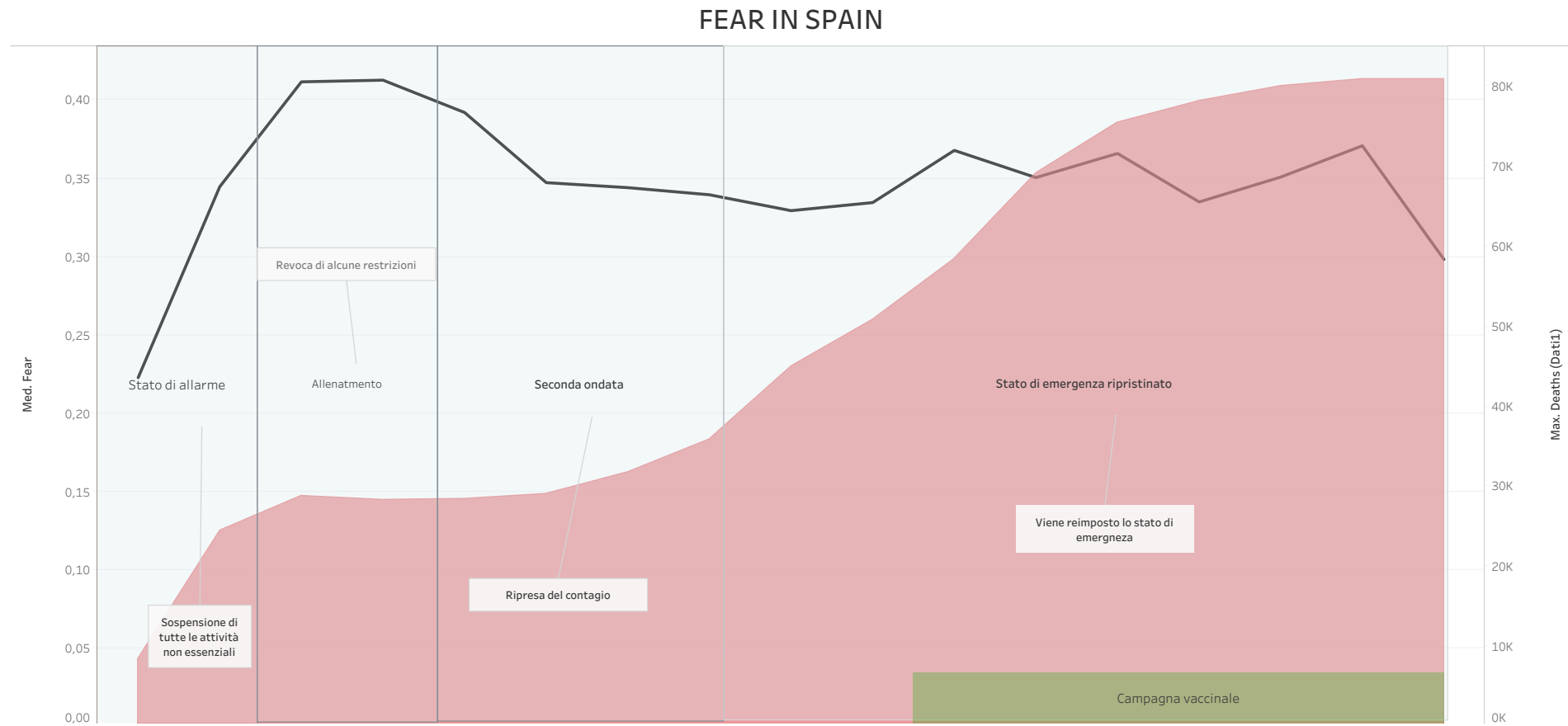
Covid-19 European Sentiment Story

Polarity Germany	Polarity Spain	Polarity UK	Fear Italy	Fear France	Fear UK	Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated ..
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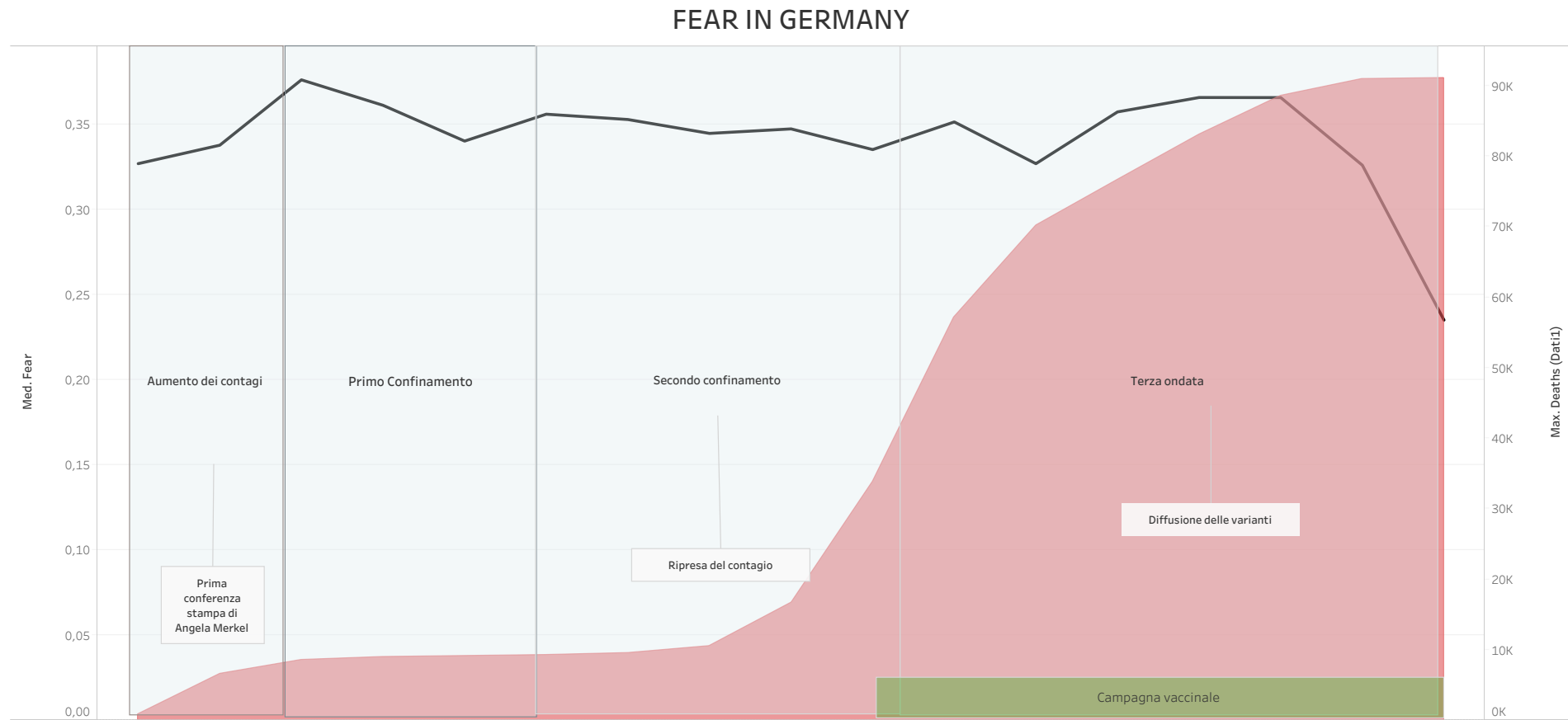
Covid-19 European Sentiment Story

Polarity Spain	Polarity UK	Fear Italy	Fear France	Fear UK	Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality
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Covid-19 European Sentiment Story

Polarity UK	Fear Italy	Fear France	Fear UK	Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality
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Fear Italy	Fear France	Fear UK	Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality	4. Sequences & Publications
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RESEARCH QUESTION

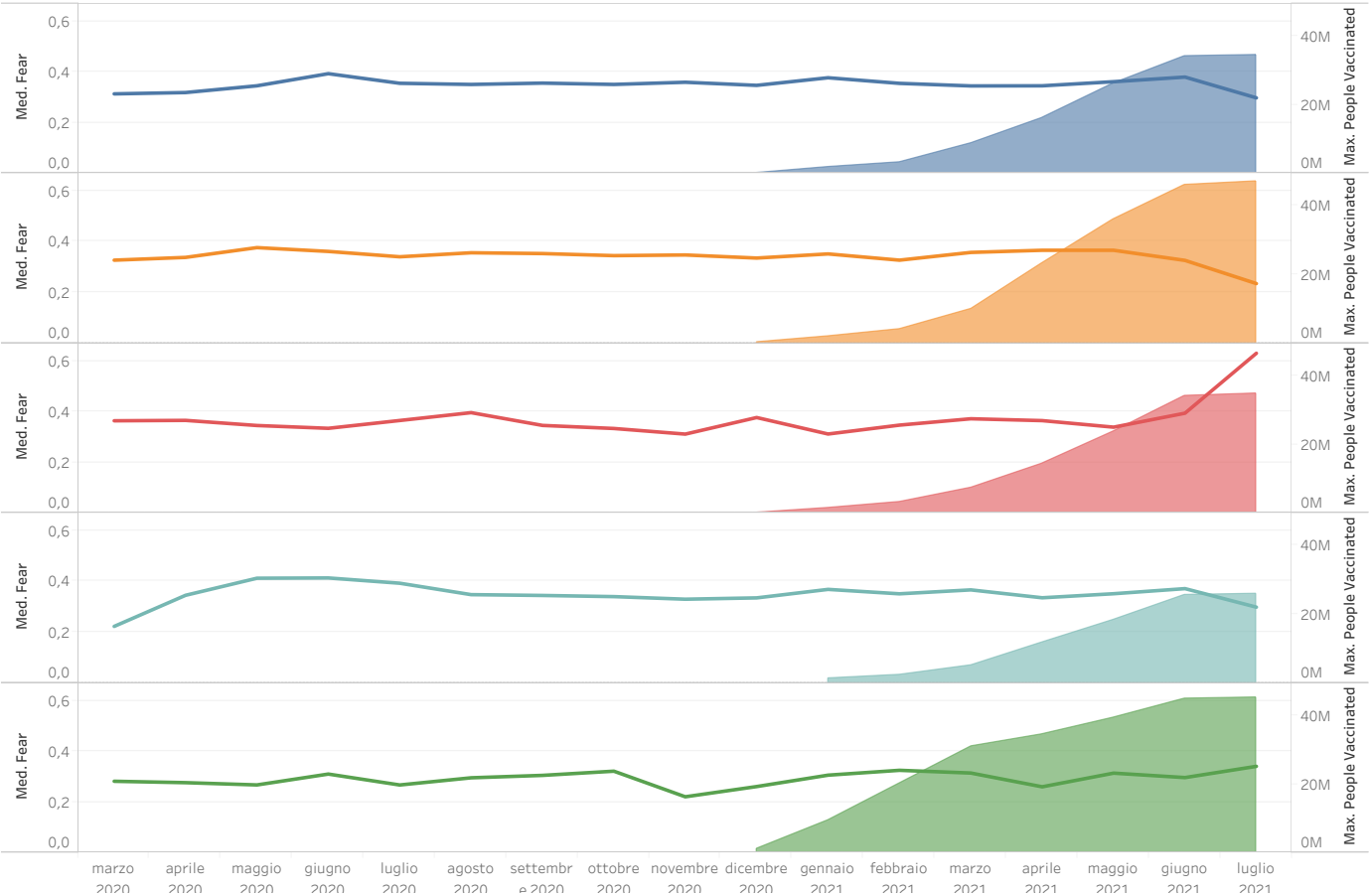
How has the progression of the **vaccination campaign** affected people's emotions?

DATA

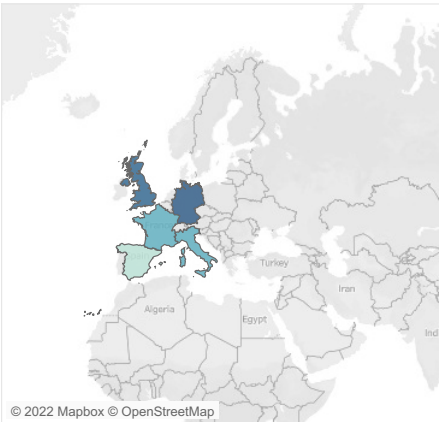
1. **Tweets** ID from "IEEE"
2. **Vaccination campaign** data from "ECDC"

Covid-19 European Sentiment Story

Fear France	Fear UK	Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide
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FEAR
VS
TOTAL VACCINATED

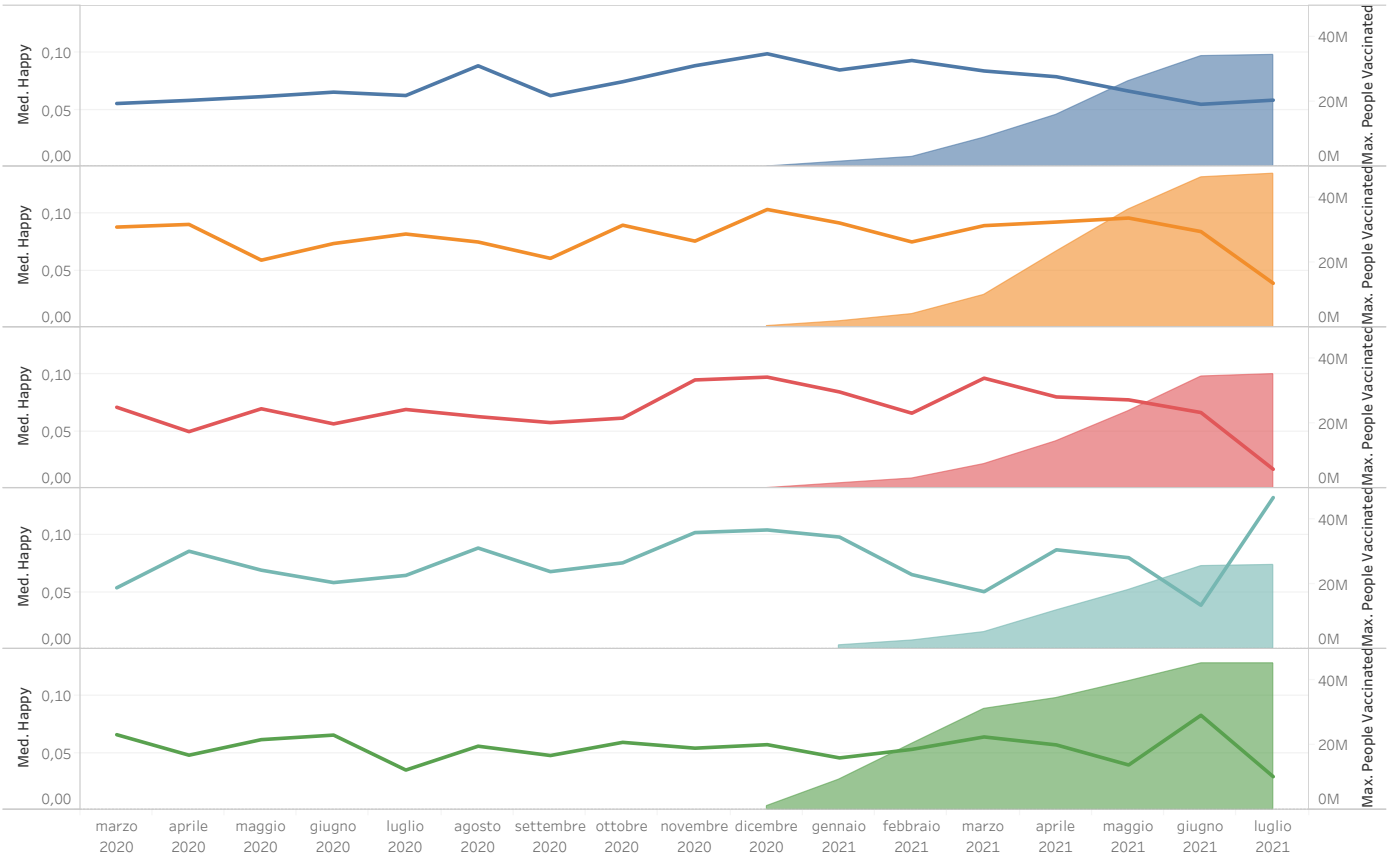


© 2022 Mapbox © OpenStreetMap

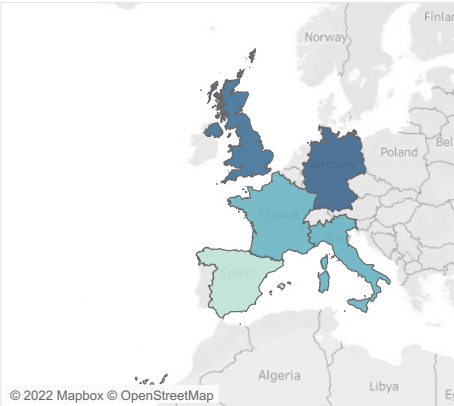
- Country
- France
 - Germany
 - Italy
 - Spain
 - United Kingdom

Covid-19 European Sentiment Story

Fear UK	Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide
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HAPPINESS
VS
TOTAL VACCINATED



- Country
- France
 - Germany
 - Italy
 - Spain
 - United Kingdom

Covid-19 European Sentiment Story

Fear Spain	Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications
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RESEARCH QUESTION

How much has Covid-19 changed the **quality of life** in the Italian regions?

DATA

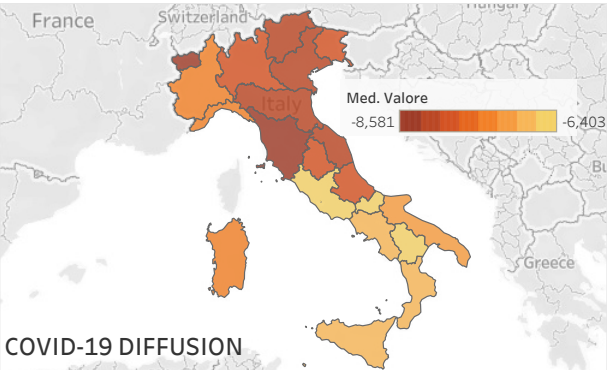
1. **Quality life** data from "IlSole24Ore"
2. **Epidemiological** data from "Protezione civile"

Covid-19 European Sentiment Story

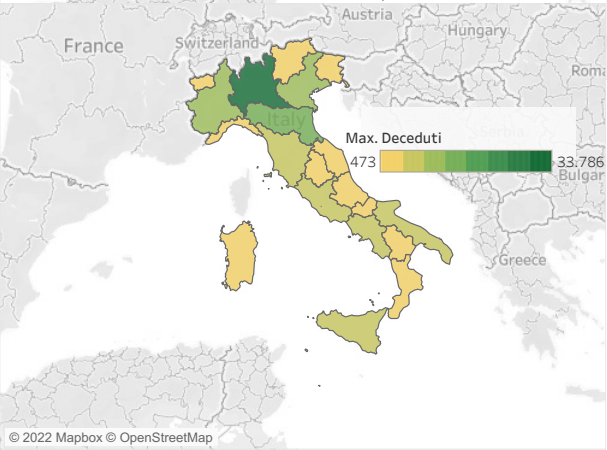
Fear Germany	2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications
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LIFE QUALITY

Premere Ctrl + i campi di interesse per evidenziarne più di uno

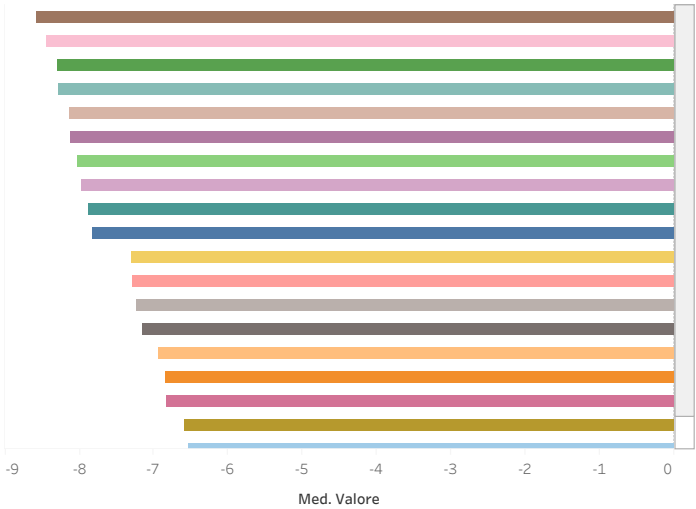


COVID-19 DIFFUSION

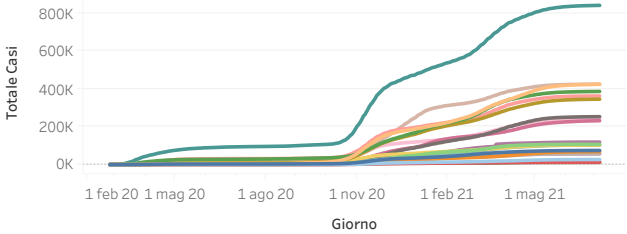


- Life quality indicators**
- ☐ Assorbimento del settore residenziale
 - ☐ Bar
 - ☐ Cancellazioni anagrafiche
 - ☐ Cassa integrazione ordinaria - Ore autorizzate
 - ☐ Cessazioni di imprese
 - ☐ Depositi bancari di famiglie consumatrici
 - ☐ Fatture commerciali ai fornitori oltre i 30 giorni
 - ☐ Imprese che fanno ecommerce
 - ☐ Indice di litigiosità (procedimenti iscritti ogni 100mila a..
 - ☐ Indice di rotazione delle cause (procedimenti definiti su ..
 - ☐ Iscrizioni anagrafiche
 - ☐ Librerie
 - ☐ Medici di medicina generale ogni 1000 abitanti
 - ☐ Nascite
 - ☐ Nuove iscrizioni di imprese
 - ☐ Palestre
 - ☒ Pil pro capite
 - ☐ Popolazione con crediti attivi
 - ☐ Prezzo medio di vendita delle case - zona semicentrale n..
 - ☐ Quota cause pendenti
 - ☐ Reddito di cittadinanza - Nuclei percettori
 - ☐ Ristoranti e attività di ristorazione mobile
 - ☐ Spesa sociale enti locali per assistenza sociale domicilia..
 - ☐ Start up innovative
 - ☐ Tasso di mortalità standardizzato per 10mila abitanti

LIFE QUALITY



COVID-19 DIFFUSION



Covid-19 European Sentiment Story

2. Vaccine	Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed
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RESEARCH QUESTION

Which of the European states has **studied** Covid-19 the most?

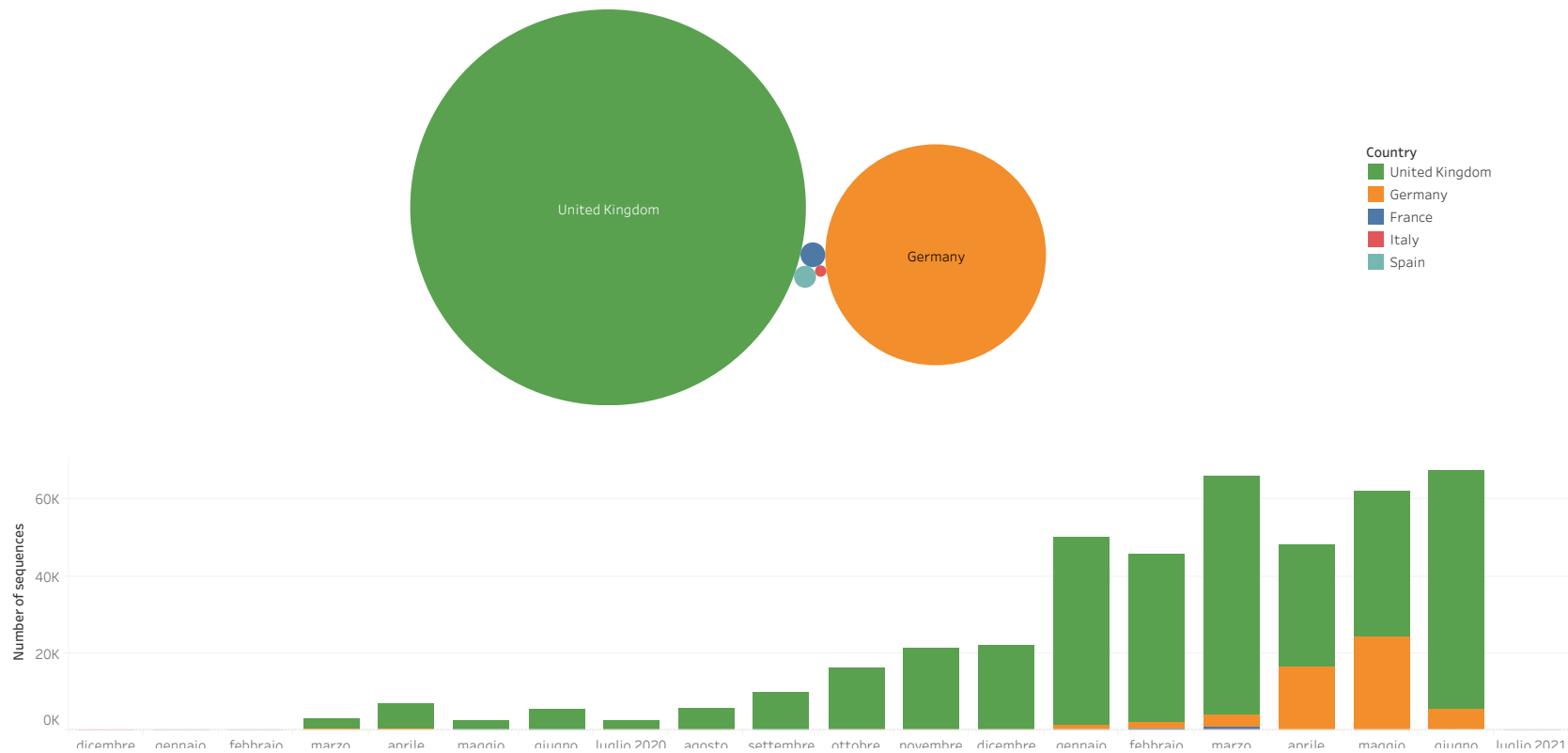
DATA

1. **Sequences** from Nucleotide (NCBI)
2. **Publications** from PubMed (NCBI)

Covid-19 European Sentiment Story

Fear vs Total Vaccinated	Happiness vs Total vaccinated vaccinated	3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt PubMed
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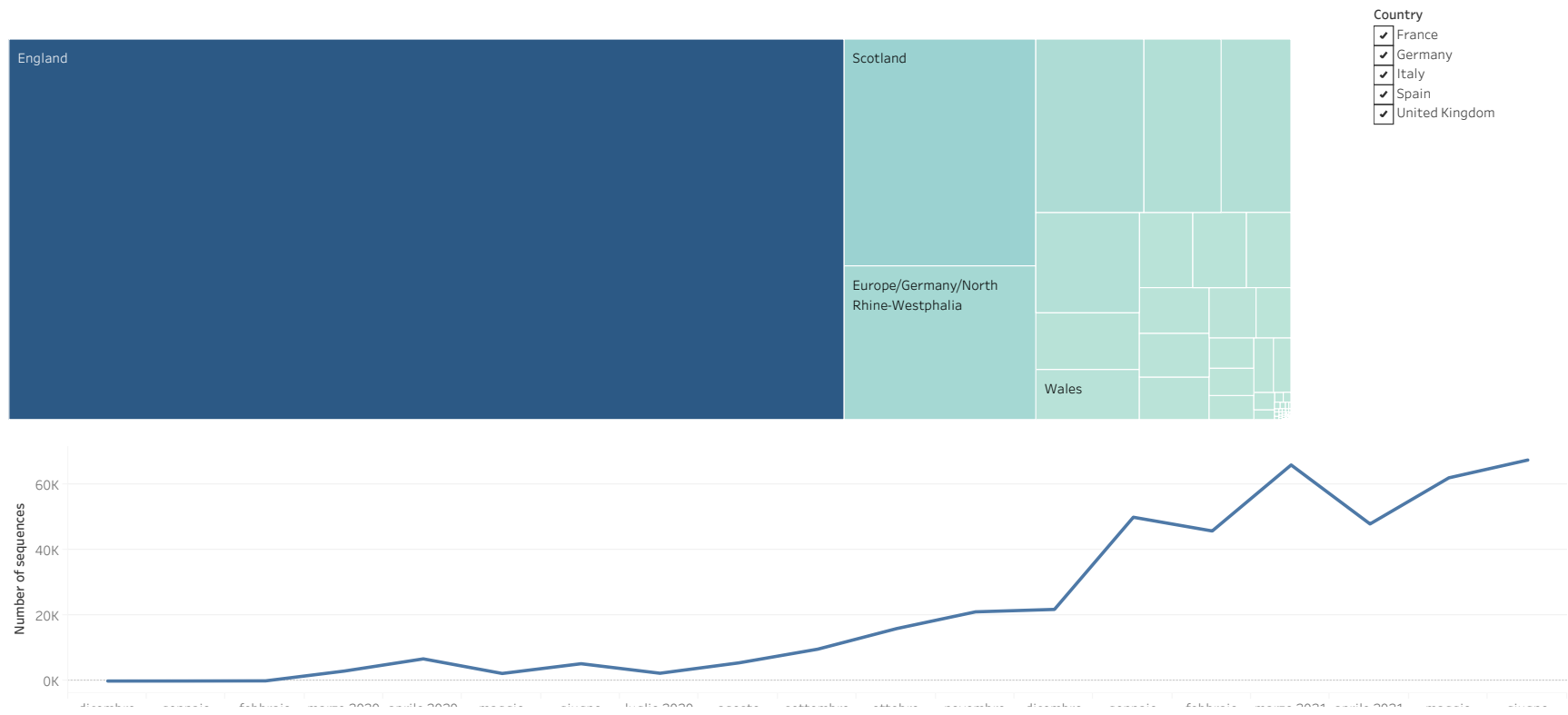
NUMBER OF SEQUENCES SUBMITTED BY COUNTRY



Covid-19 European Sentiment Story

Happiness vs Total vaccinat..	3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt PubMed	Conclusion
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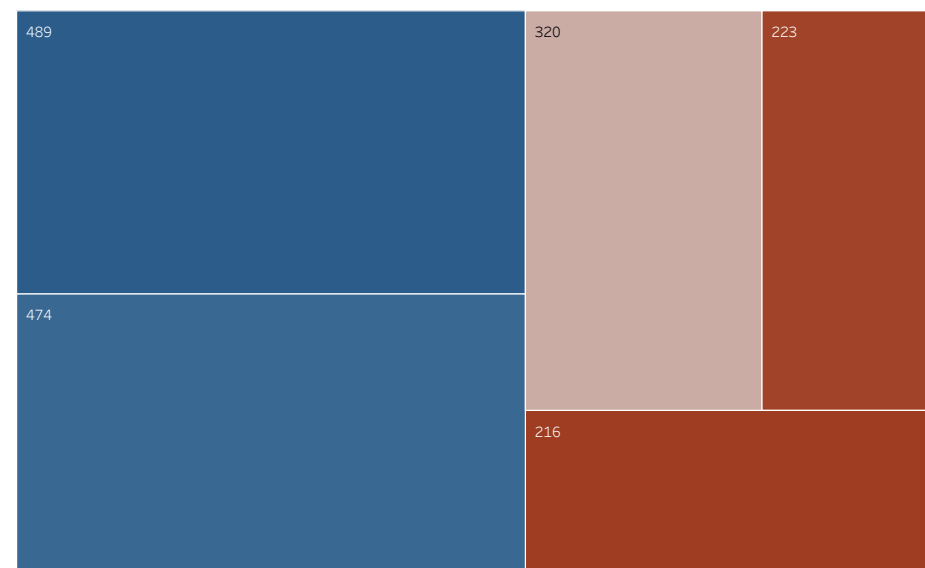
NUMBER OF SEQUENCES BY REGION



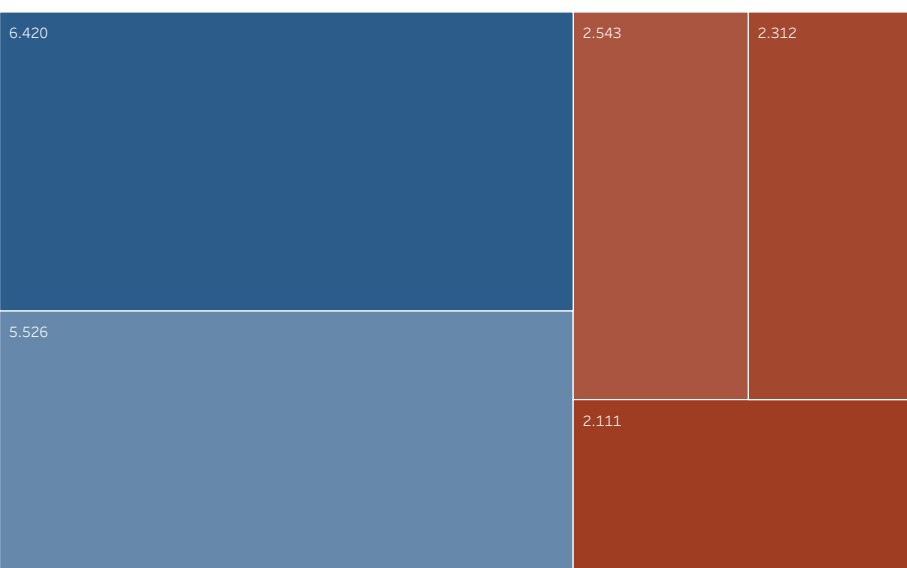
Covid-19 European Sentiment Story

3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt: PubMed	Conclusion	Thanks
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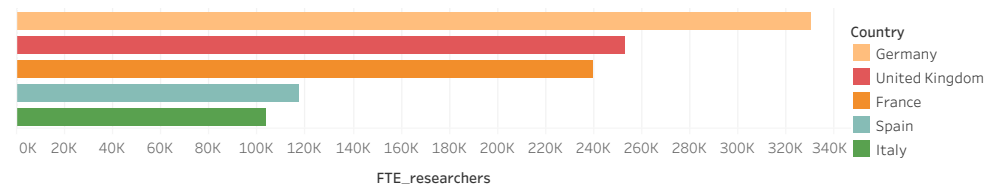
Pubblications Coronaviridae



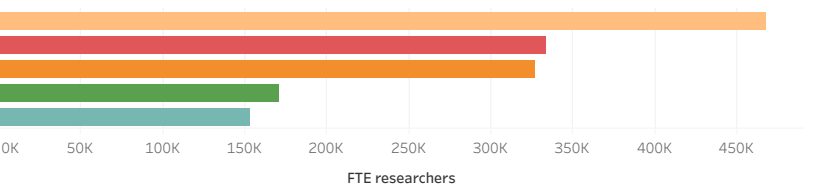
Pubblications Sars-CoV-2



FTE Coronaviridae



FTE Sars-Cov-2



3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt PubMed	Conclusion	Thanks
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RESEARCH QUESTION

Which is the **scientific journal** that has mostly dealt with the relationship between emotions and covid-19?

DATA

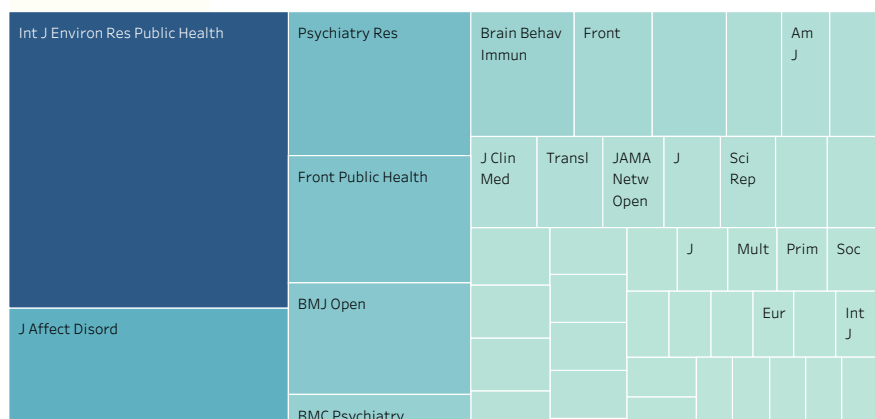
Publications from PubMed (NCBI)

Covid-19 European Sentiment Story

3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt PubMed	Conclusion	Thanks
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JOURNAL/BOOK - DEPRESSION

2002 Publications



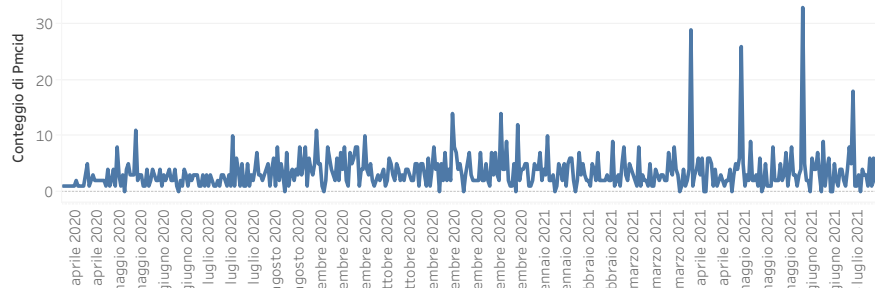
Title

6-month consequences of COVID-19 in patients discharged from hospital: a cohort study

50 Years of Behavioral Science in Diabetes: A 2020 Vision of the Future

2019-nCoV distress and depressive, anxiety and OCD-type, and eating disorder symptoms among postpartum and control women

2020 COVID-19 American Academy of Clinical Neuropsychology (AACN) Student Affairs Committee survey of neuropsychology trainees

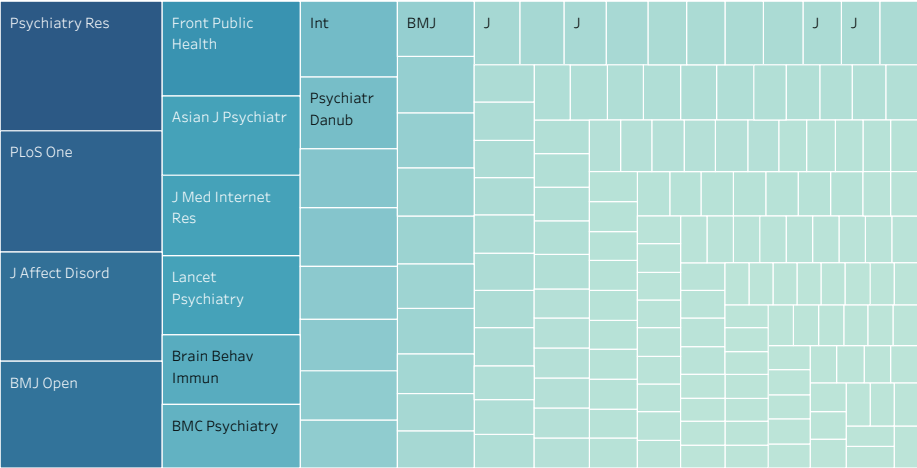


Covid-19 European Sentiment Story

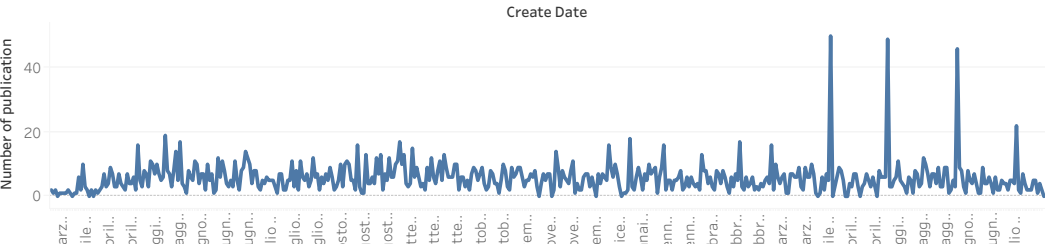
3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt PubMed	Conclusion	Thanks
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JOURNAL/BOOK - MENTAL HEALTH

3741 Publications



Title
6-month multidisciplinary follow-up and outcomes of patients with paediatric inflammatory multisystem syndrome (PIMS-TS) at
100 Years apart: Psychiatric admissions during Spanish flu and COVID-19 pandemic
2019-nCOV distress and depressive, anxiety and OCD-type, and eating disorder symptoms among postpartum and control women
2019-nCoV epidemic: address mental health care to empower society



3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt PubMed	Conclusion	Thanks
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CONCLUSI..

1. Negative emotions refer to the **restrictive measures** introduced by the government

2. **Fear and Happiness decrease** in almost all the states considered as the vaccination campaign progresses

3. In the regions most **affected** by the virus, the quality of life tends to **decrease**

4. **UK** and **Germany** are the main states for the pubblication of **sequences**

5. Jounals like **PLoS One** and **J Affect Disord** published **more articles** about **both** of the arguments

3. Life Quality	Italy Life Quality	4. Sequences & Publications	Sequences Nucleotide	Sequences Nucleotide	PubMed Publications	5. Publications	Depression PubMed	Mental-Healt PubMed	Conclusion	Thanks
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THANKS FOR YOUR
ATTENTION