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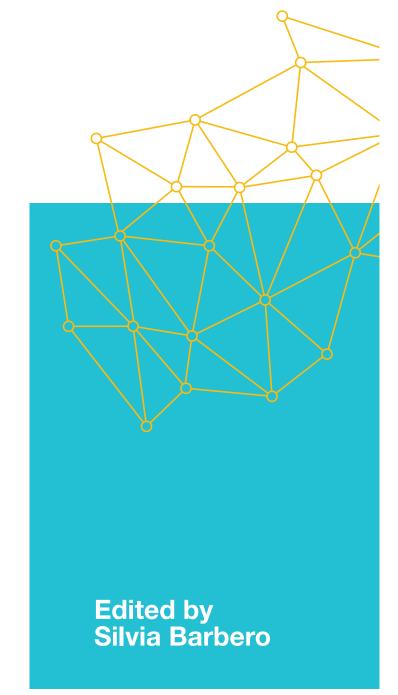
retrace



Systemic Design Method Guide for Policymaking:

A Circular Europe on the Way

volume 1







SYSTEMIC DESIGN METHOD GUIDE FOR POLICYMAKING A Circular Europe on the Way

EDITED BY SILVIA BARBERO

SYSTEMIC DESIGN METHOD GUIDE FOR POLICYMAKING: A CIRCULAR EUROPE ON THE WAY

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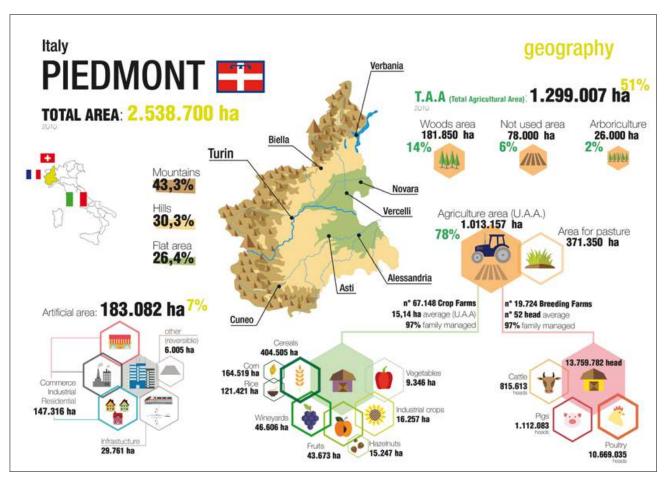
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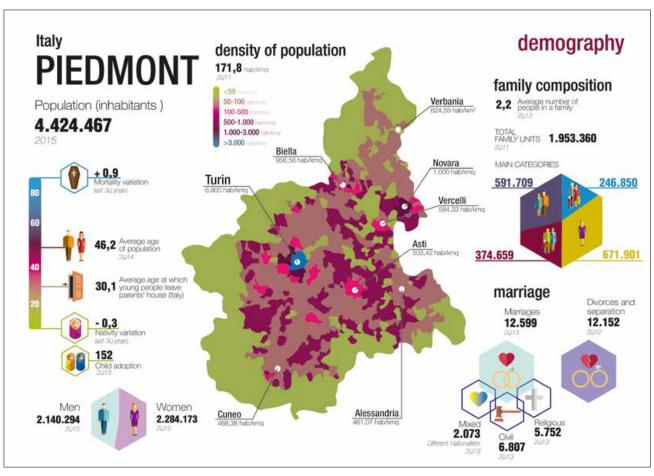
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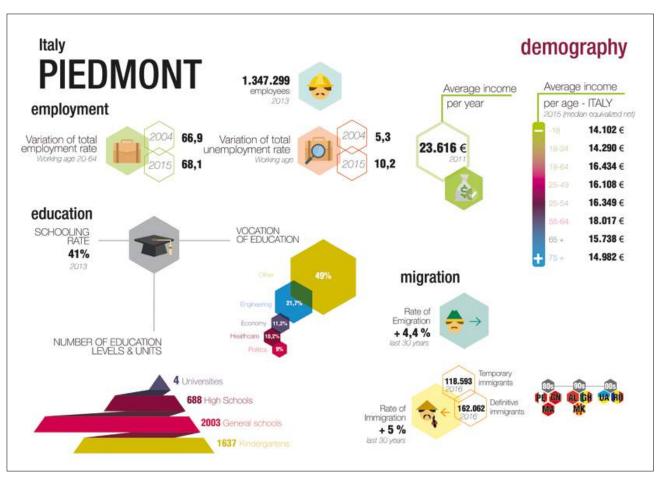
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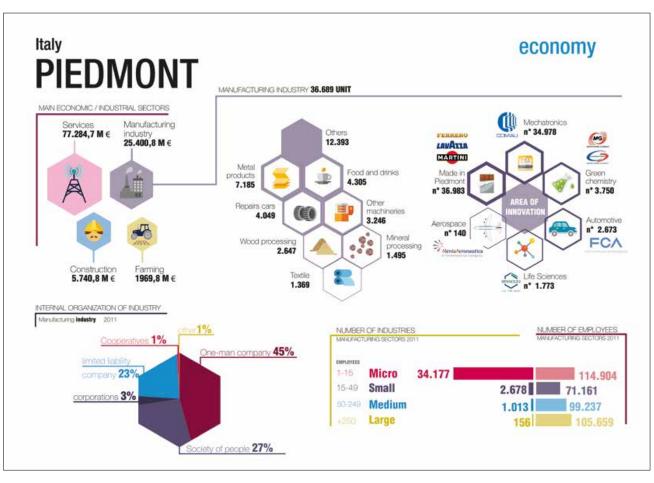
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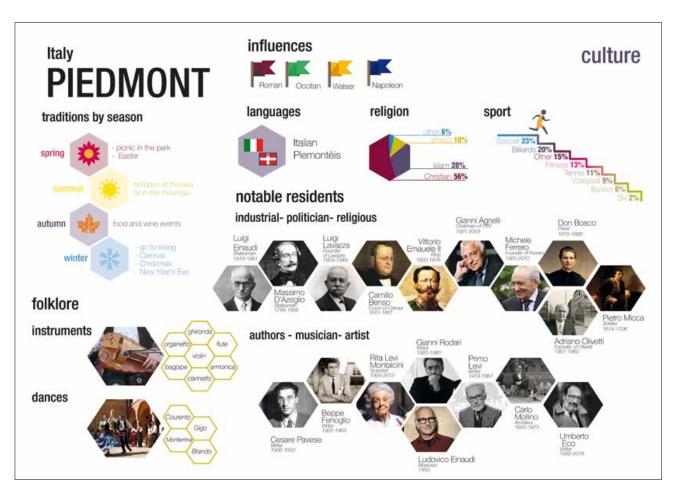
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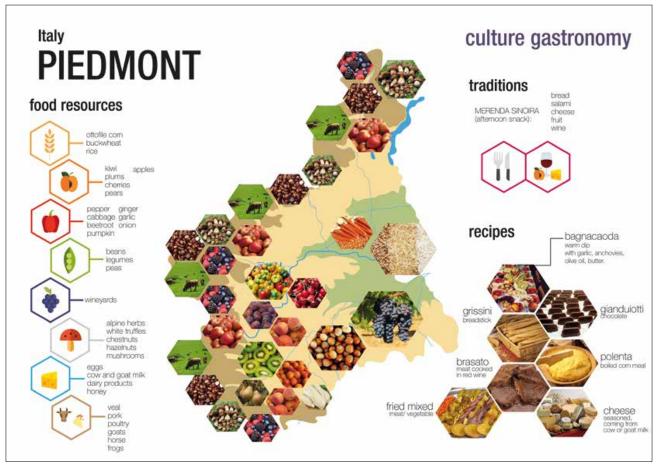


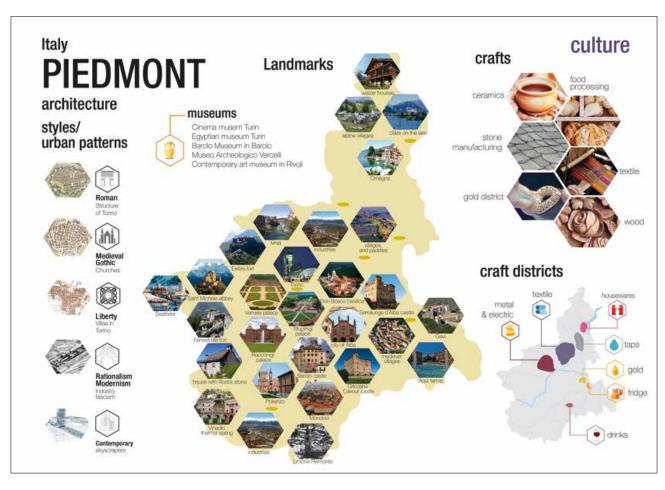


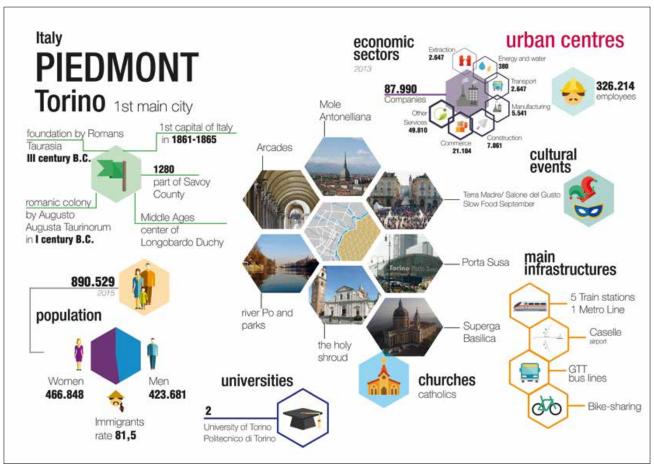


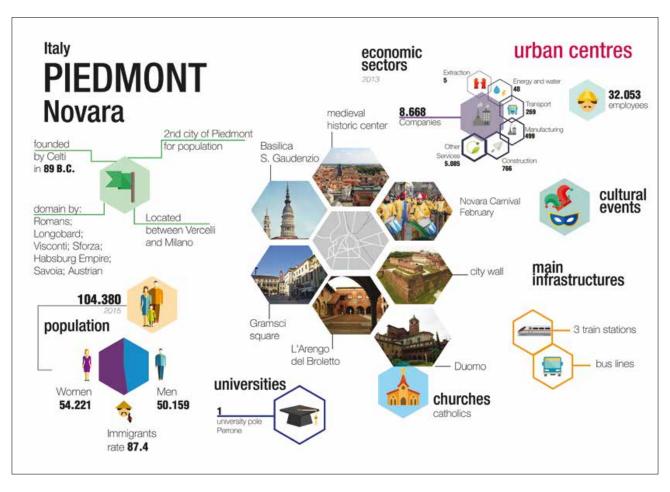


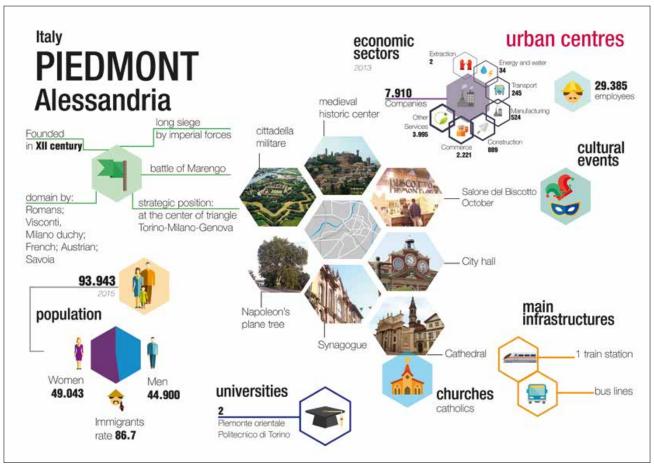


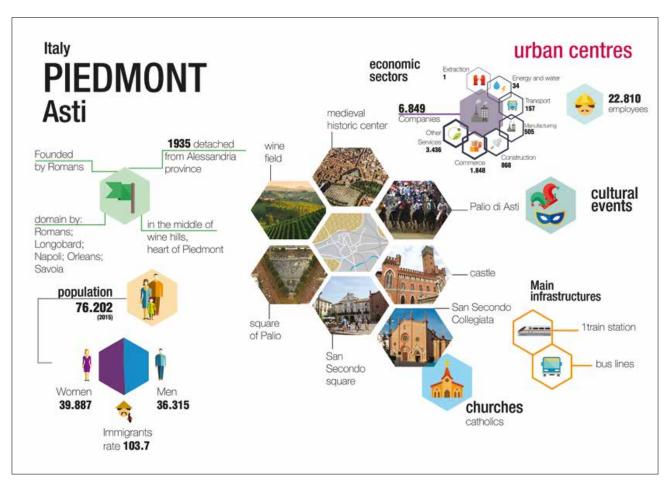


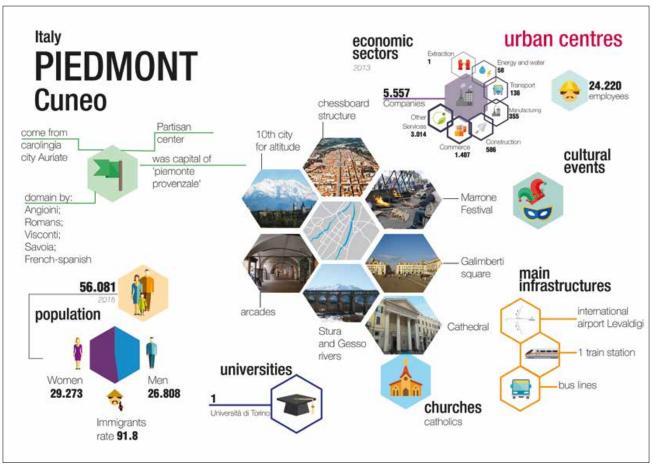


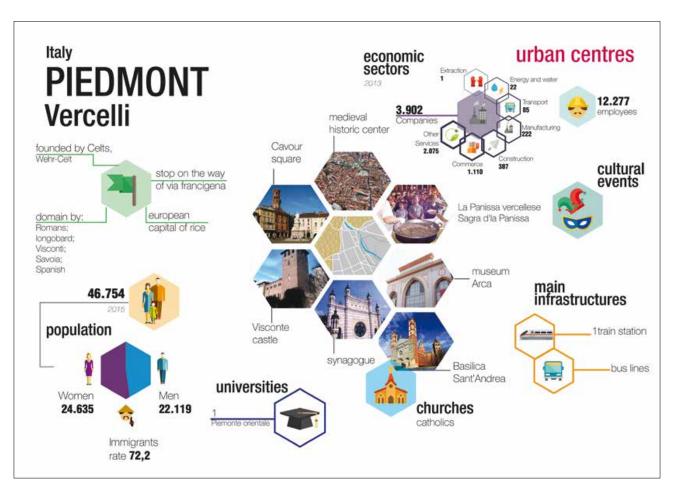


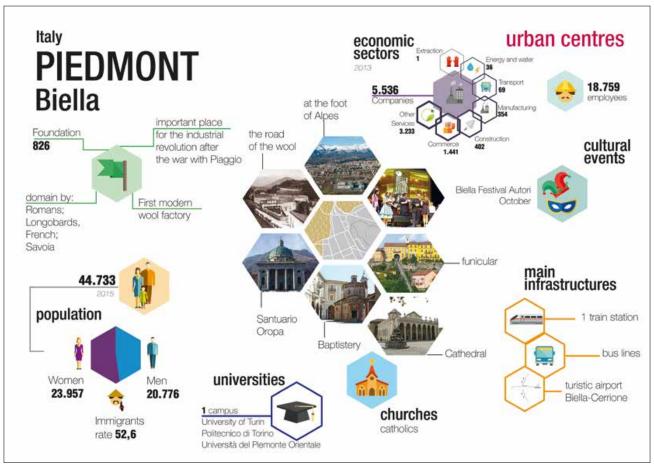


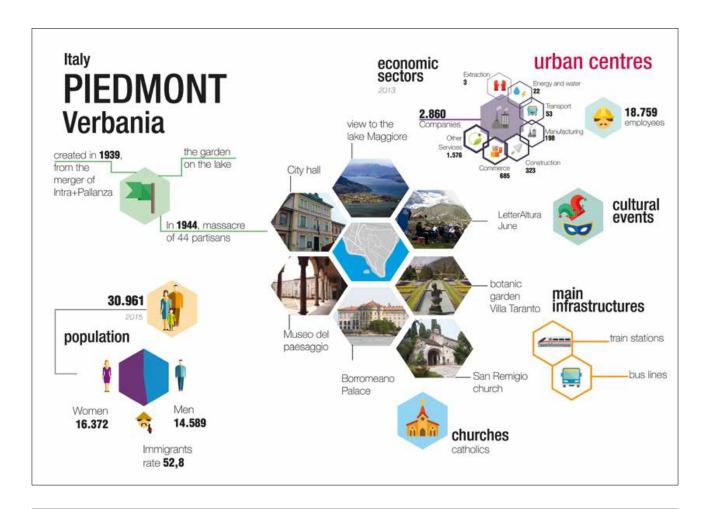












PIEDMONT Italy

bibliography /webography

geography

Regione Plemonte (2015). Monitologgo del consumo di auto in Plemonte. Yorino: Regione Plemonte. Retrievad from http://www.regione.plemonte.it

demography

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economy

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culture

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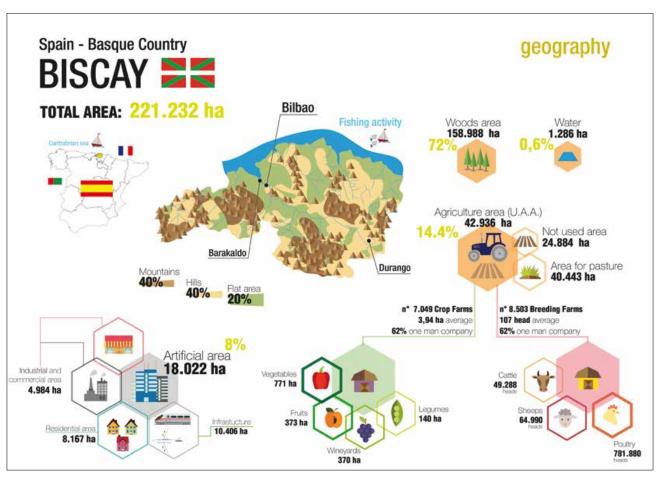
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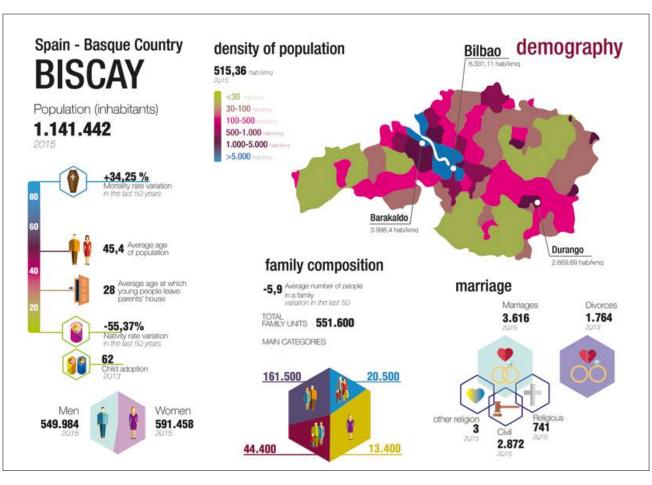
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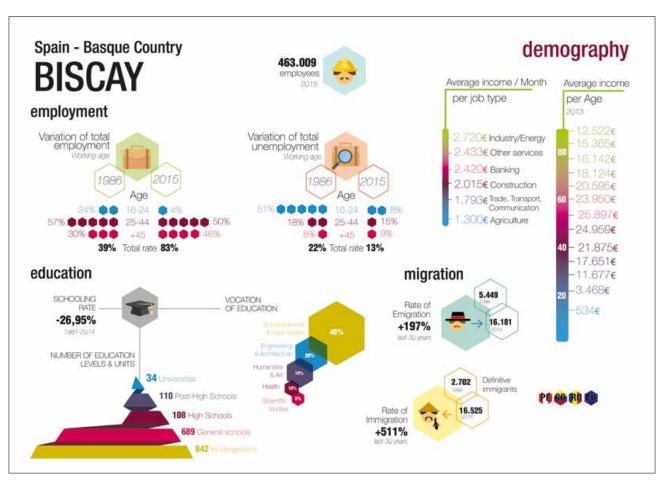
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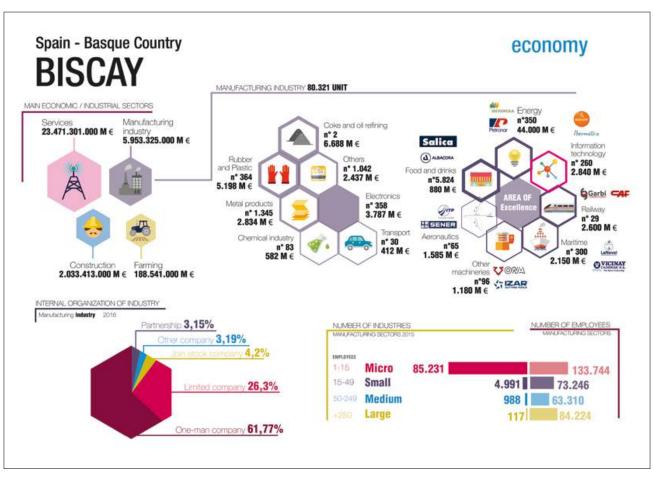
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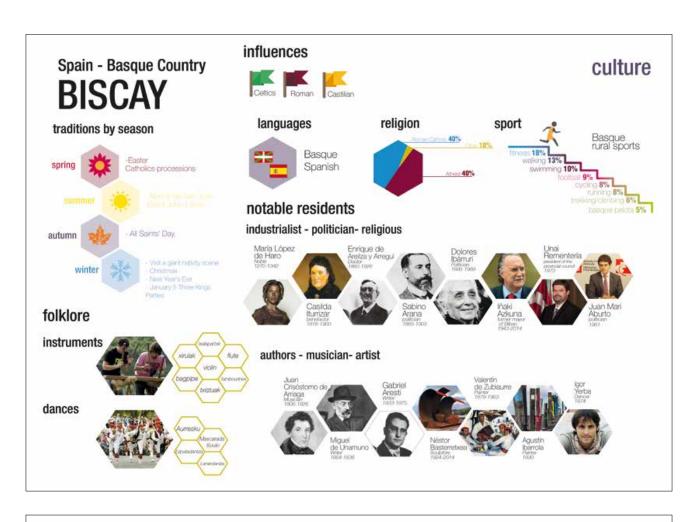
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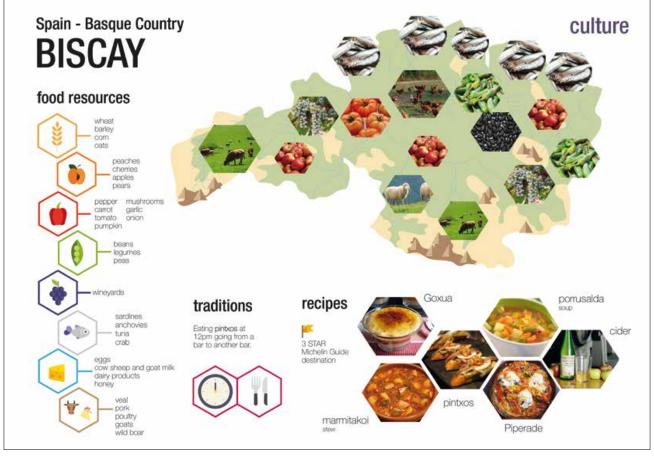


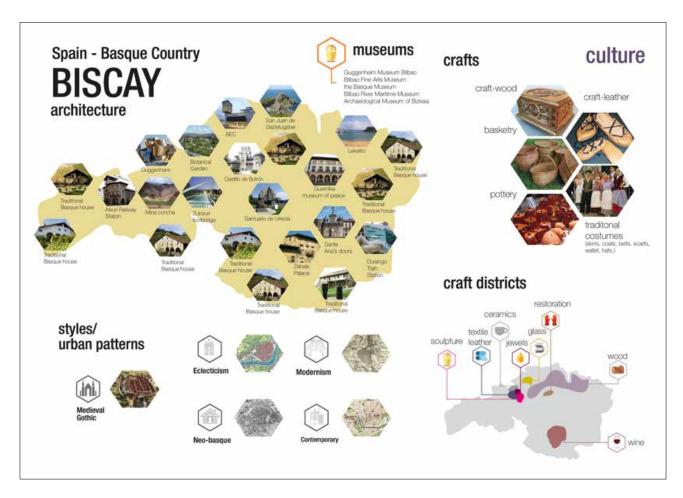


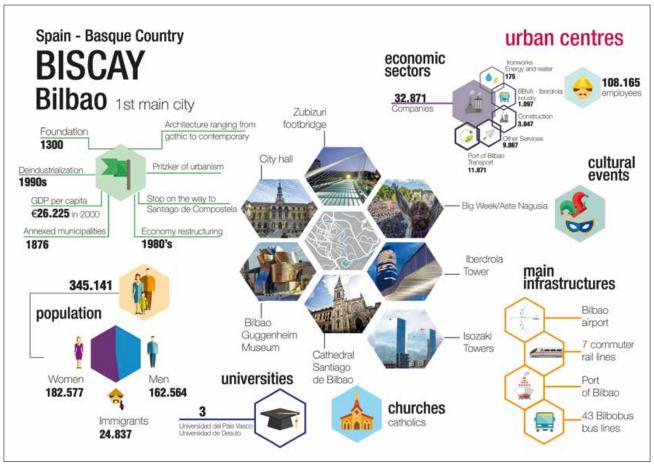


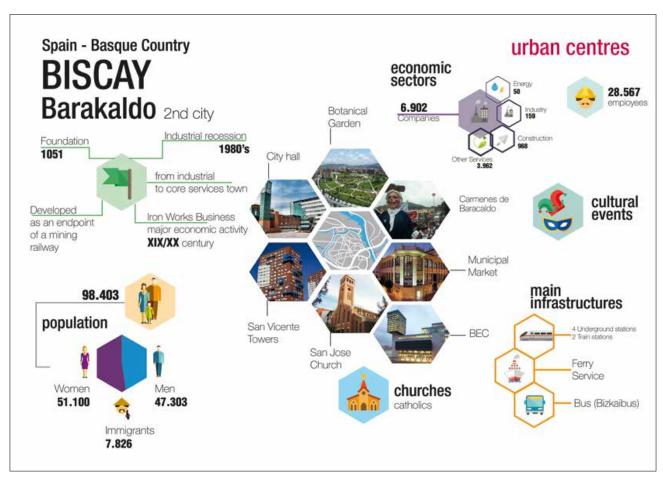


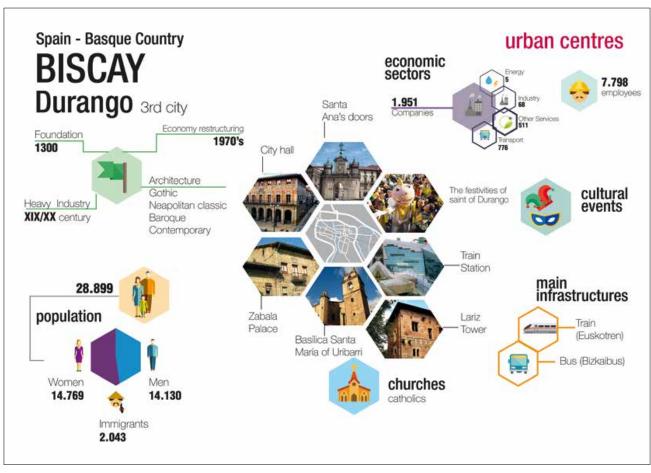












BISCAY Spain - Basque Country

bibliography /webography consultation date: from september 2016 to december 2016

geography

http://en.eustat.eus http://www.nasdap.e/gv.euskadi.eus https://en.wikipedia.org/wiki http://www.ign.es

demography

map: interpretation of the map retrieved from www.leaibana.com

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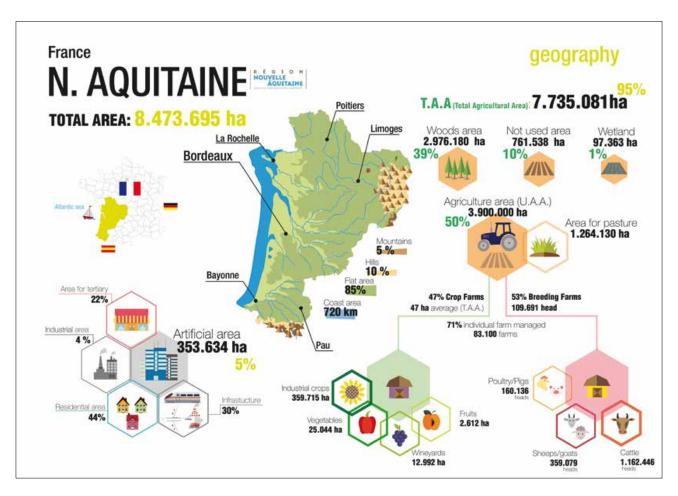
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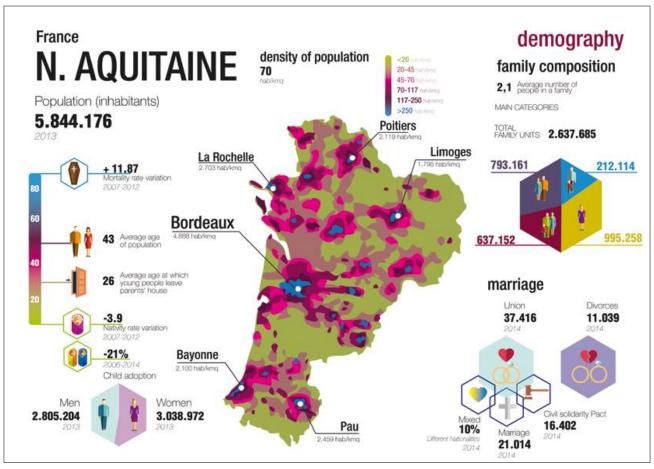
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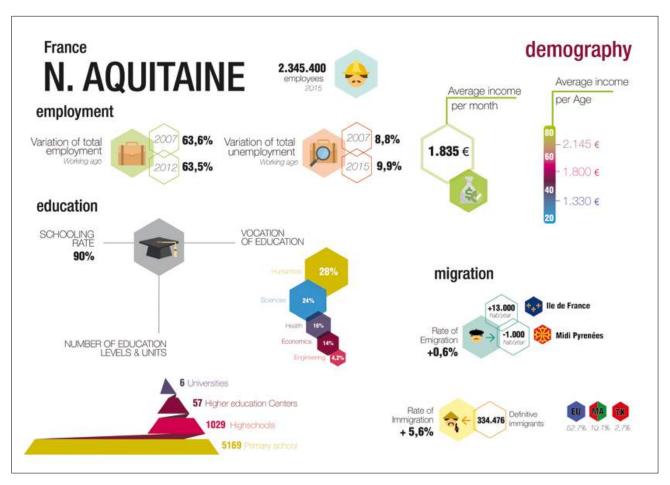
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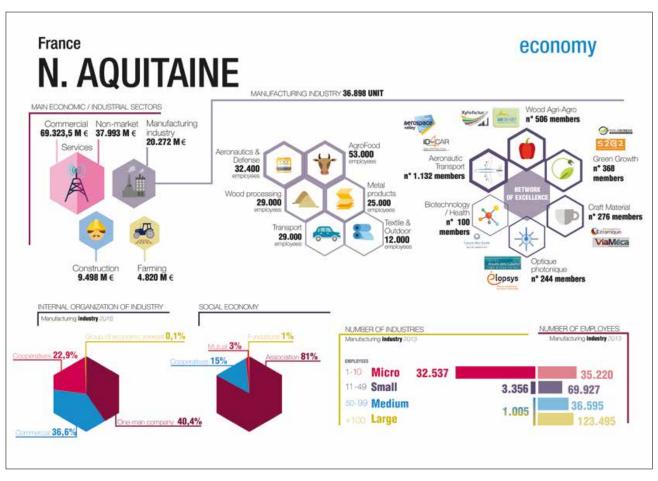
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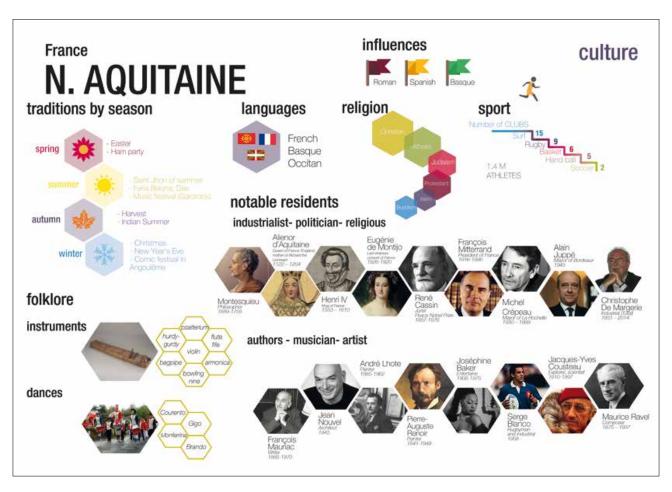
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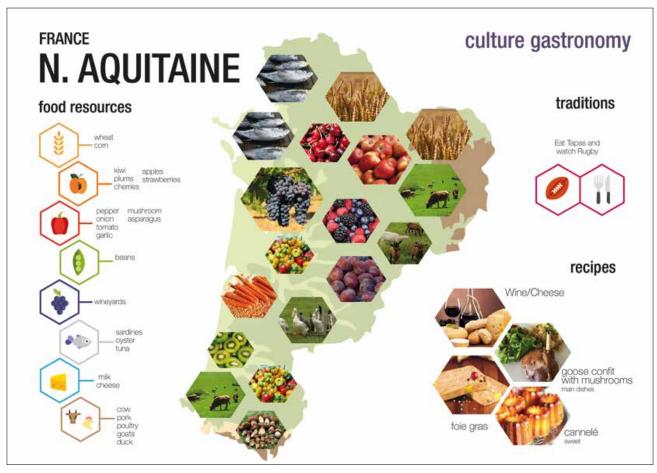


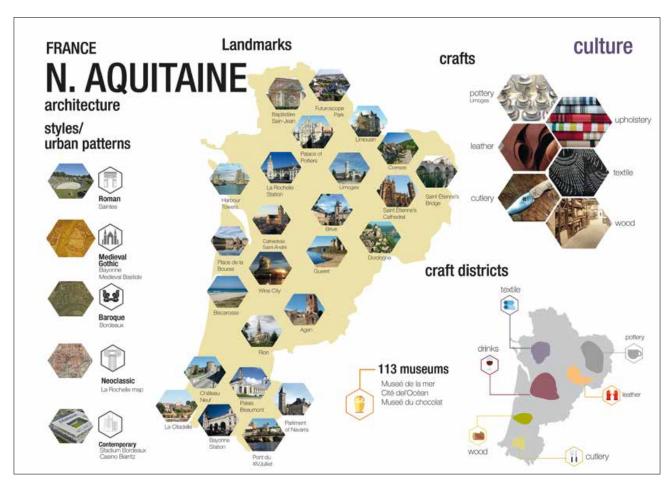


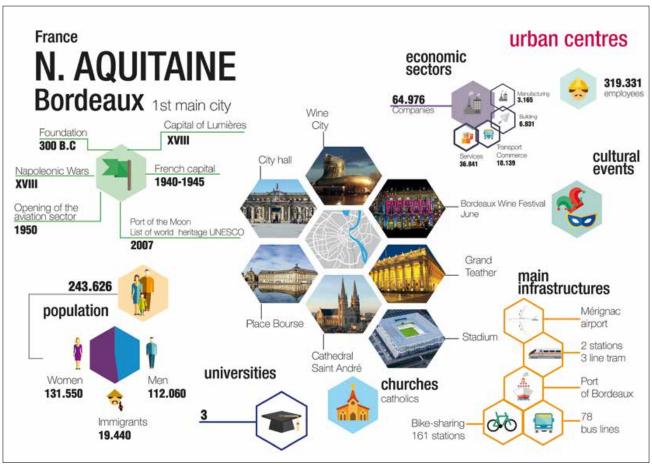


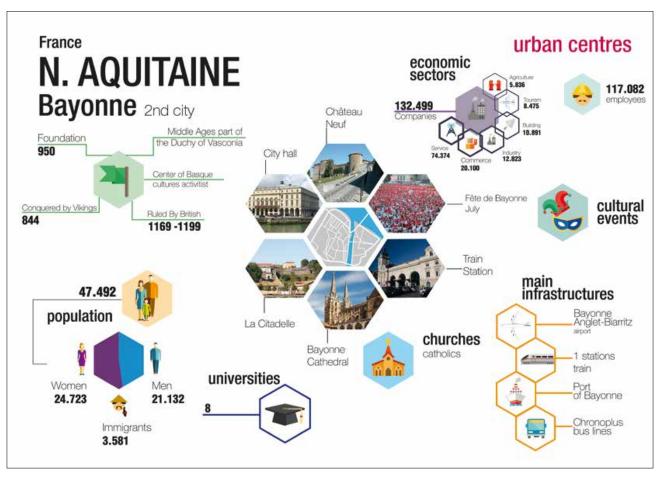


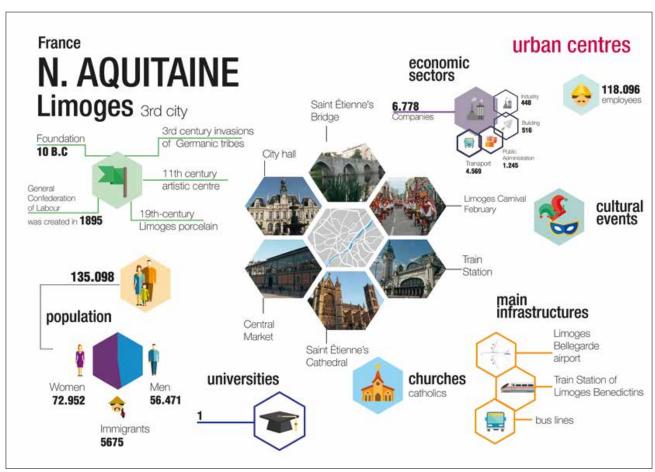


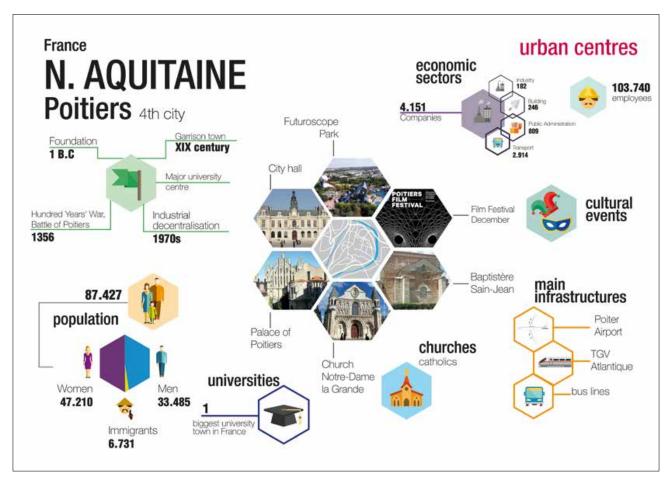


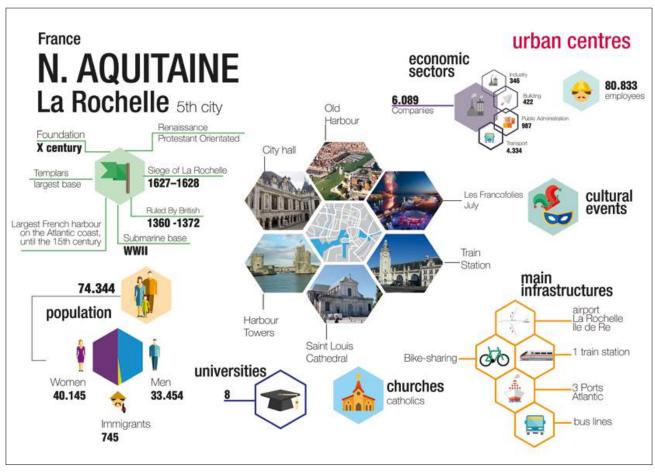


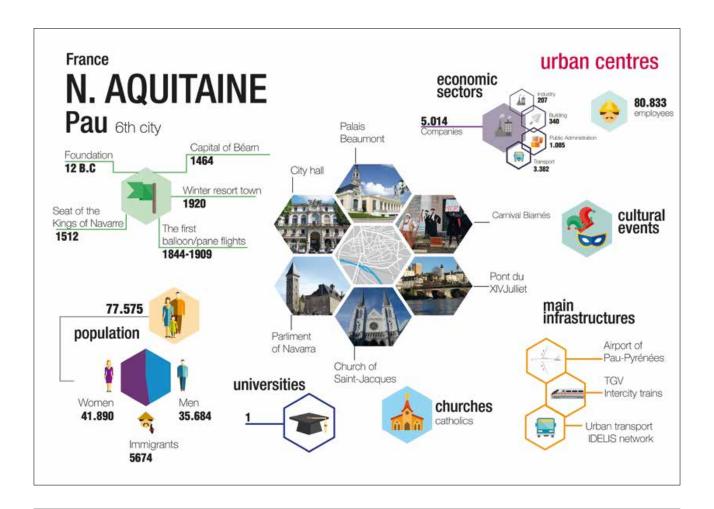












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bibliography /webography

consultation date: from september 2016 to december 2016

geography

http://agreste.agriculture.gouv/r/MG/pdf/seut/2015T2bevs.pdf www.wkipada.it

demography

data from CO: Aguitaine 2015, Pancrama Web CO: Aguitaine 2015.

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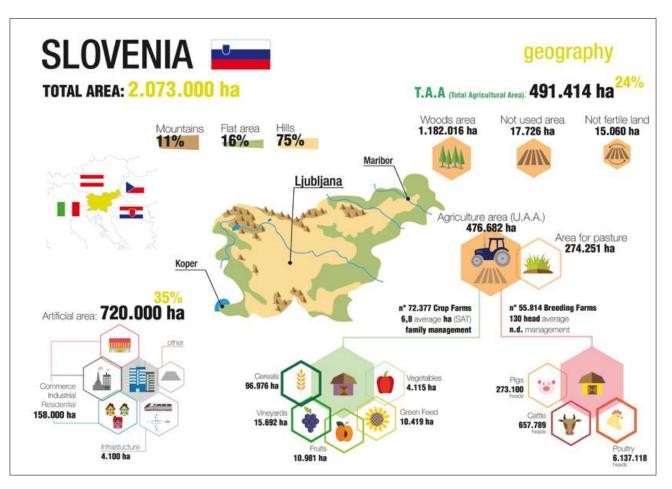
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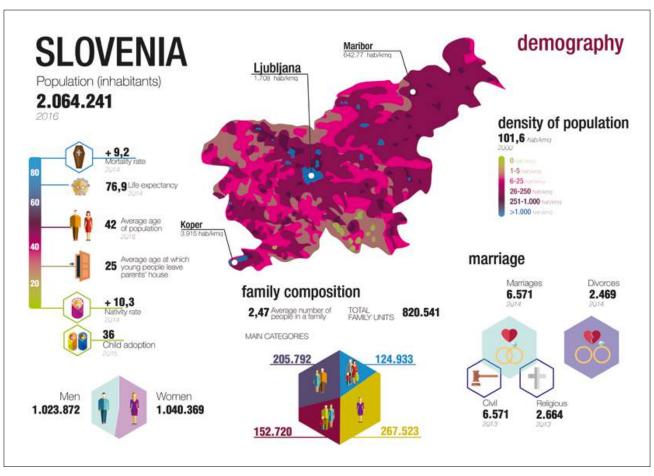
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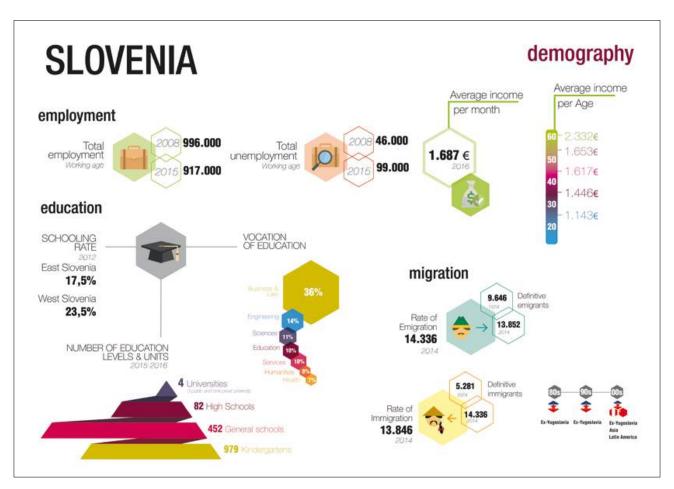
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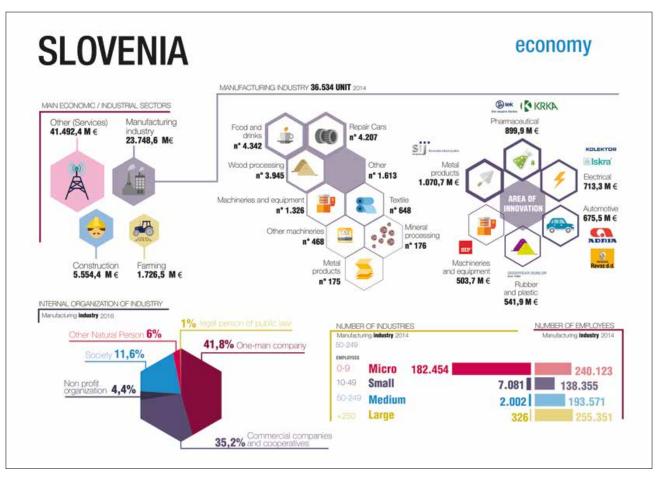
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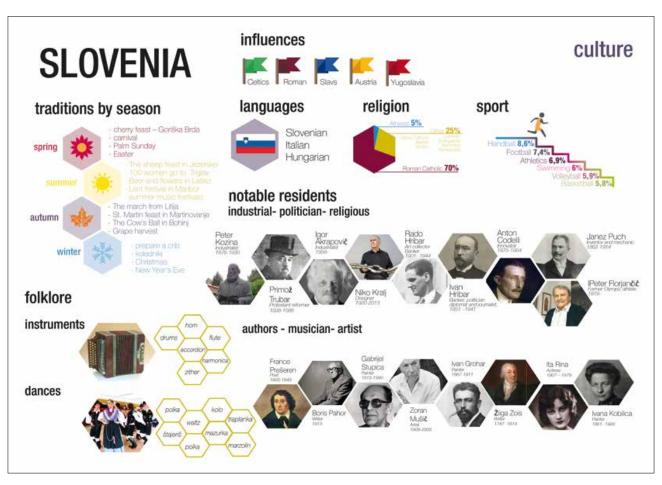
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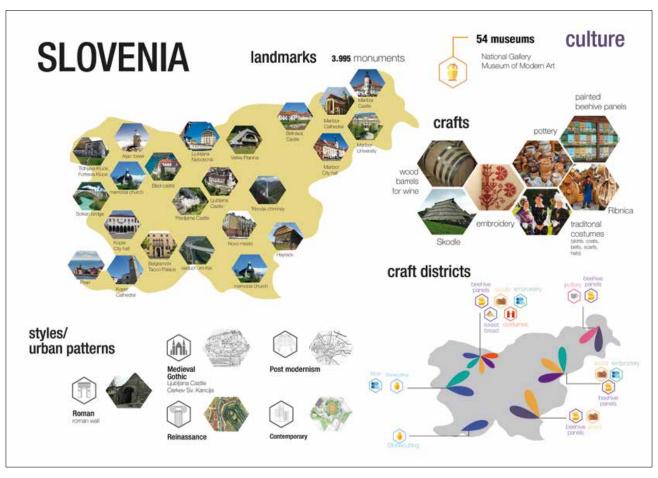


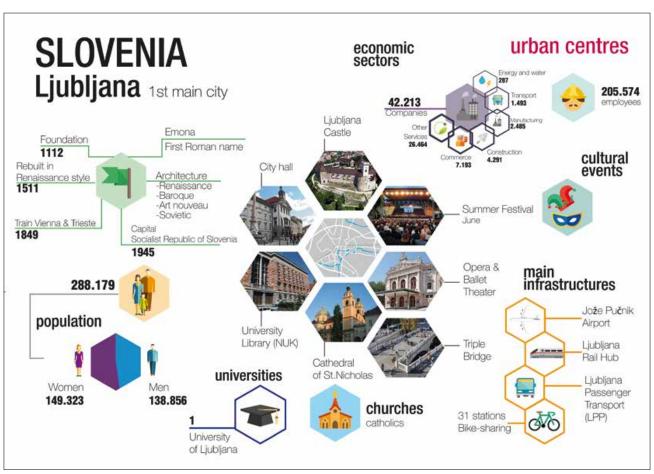


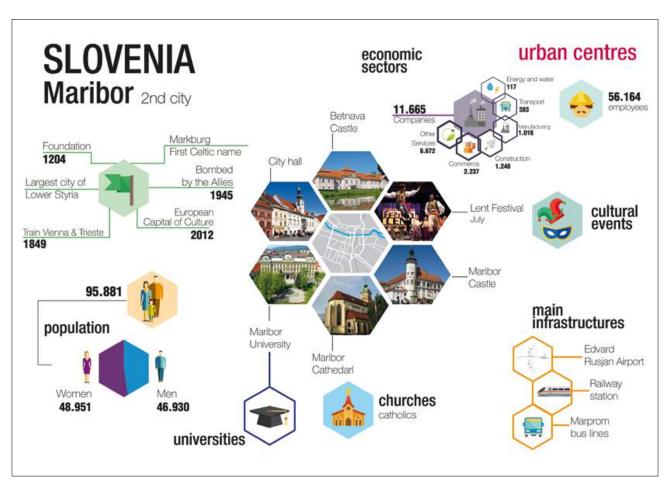


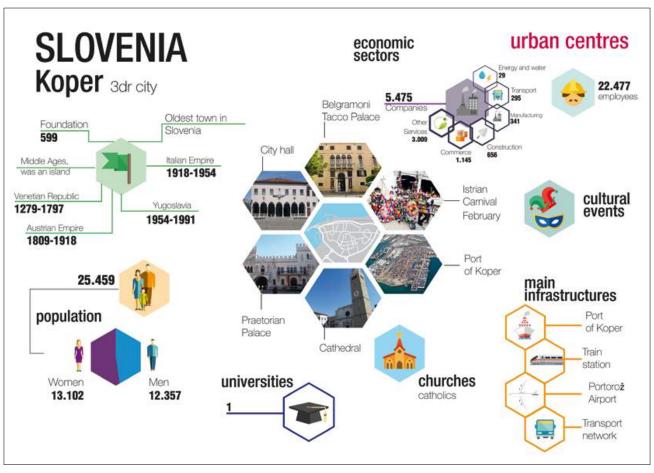












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bibliography /webography consultation date: from september 2016 to december 2016

geography

data from database SORS

www.wikipedia.com

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data from database SORS

www.stat.si http://pxweb.stat.si/ www.mddsz.gov.si www.mizs.gov.si www.wikipedia.com

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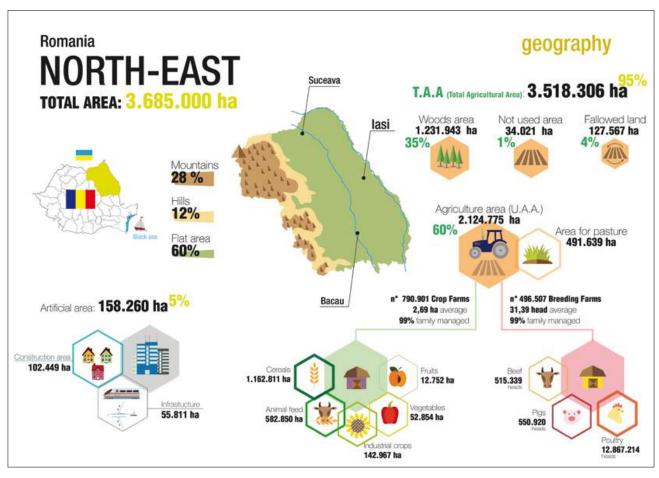
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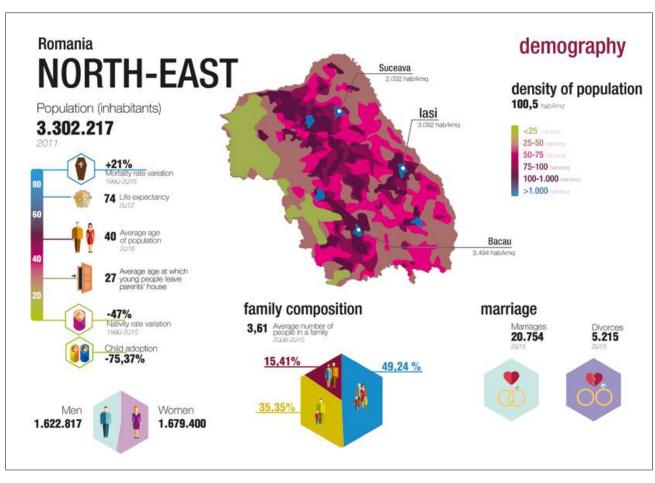
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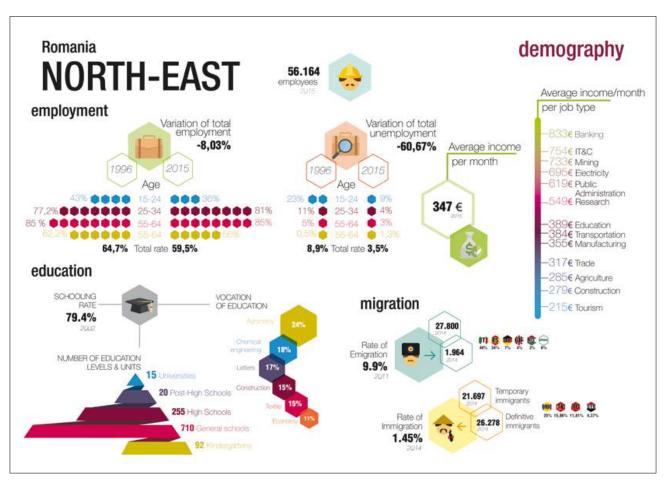
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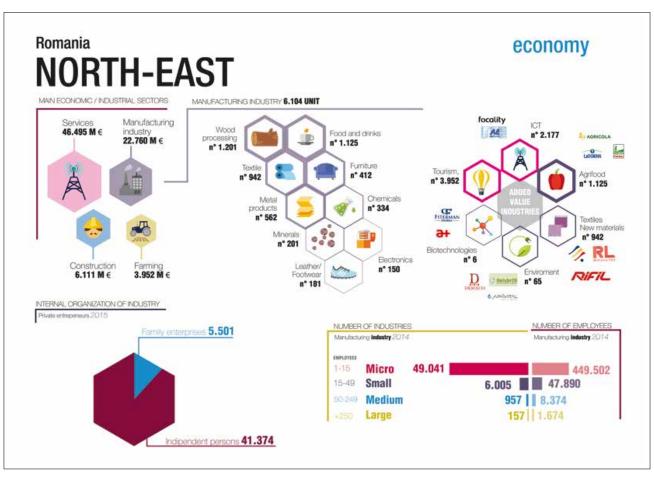
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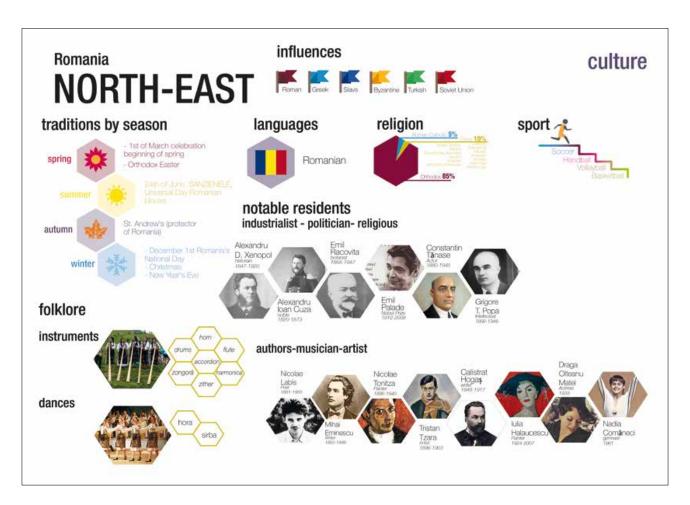
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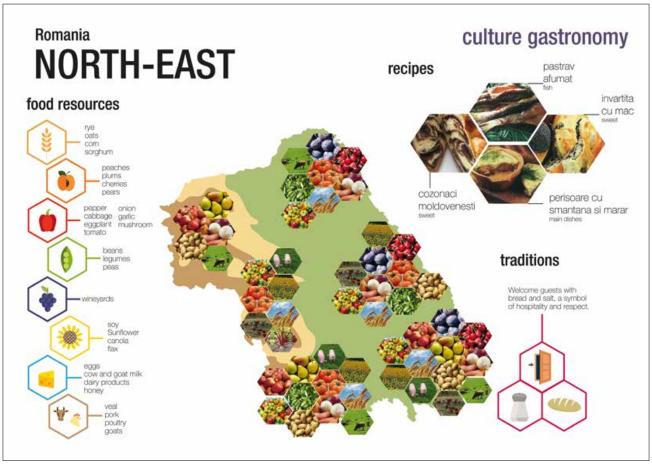


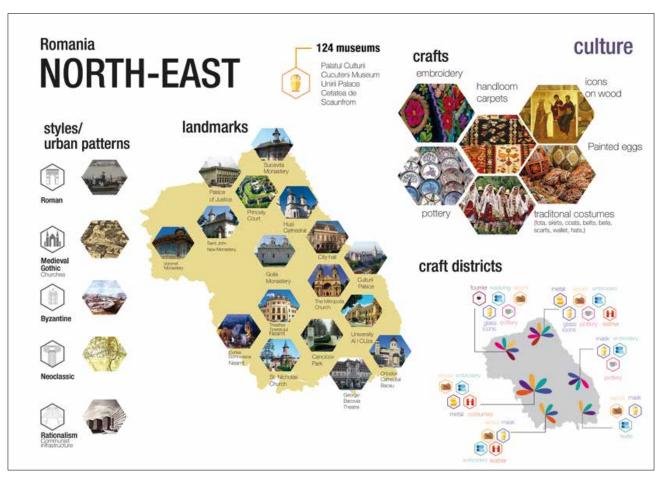


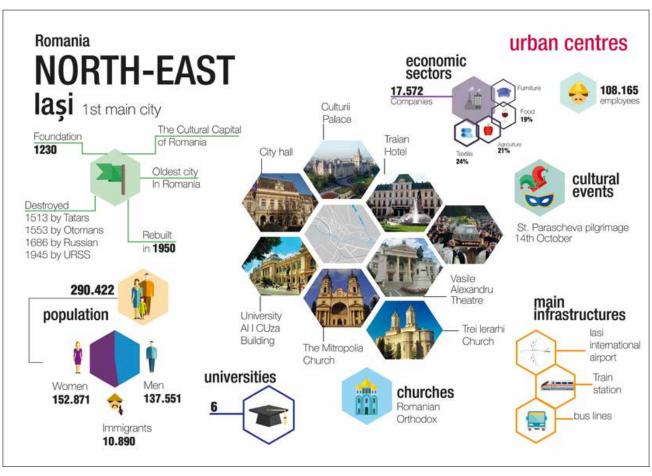


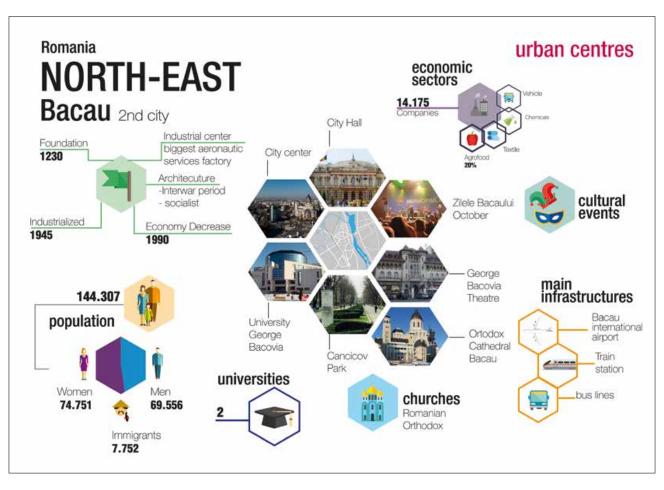


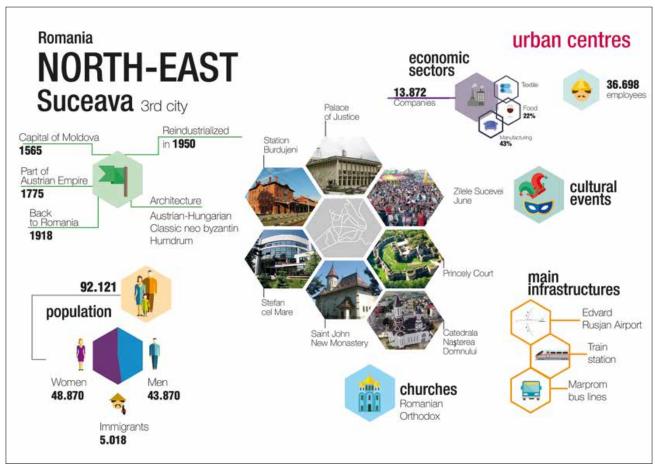












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geography

data from PRD 2014-2020 data from INSSE Tempo Database

www.wikipedia.it

demography

data from INSSE Tempo Database data from EU SILC data

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economy

data from PRD 2014-2020 data from INSSE Tempo Database data received from Chamber of trade and industry

culture

data from PRD 2014-2020 data from INSSE Tempo Database

G. Ionescu, (1937). Istoria Arhitecturii Romanesti. Din cele mai vechi timpuri pana la 1900. V. Florea. (2007). Istoria artei românesti, Bucuresti-Chisinău. Litera International ed. R. A. Roman. Bucate, vinuri si obiceiuri romanesti

www.wikipedia.it http://www.buildersmagazine.ro/ http://romaniatourism.com http://spatiulconstruit.ro/ www.bucataria-lui-radu.ro http://calendarulortodox.ro www.travelguideromania.com http://traditiiobiceiuri.blogspot.ro

urban centers

data from PRD 2014-2020 data from INSSE Tempo Database data received from Chamber of trade and industry

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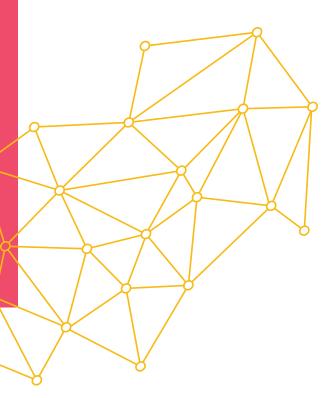
This volume aims at clarifying the role of Circular Economy according to a sustainable development and how policymakers can target it effectively in their activities. It is a guide to Systemic Design as a key methodology to establish sustainable regional action plans towards a Circular Economy.

As the result of an intense dialogue between people who present different perspectives and seek for a common language in the current complexity of policymaking and designing, this is the first of a three book series published across a four-year period (2016–2020) as part of the RETRACE Project funded by the Interreg Europe Programme.

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volume 1



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