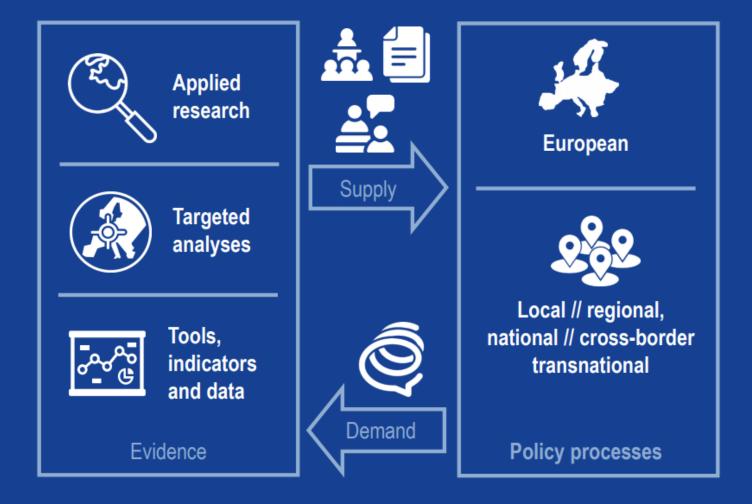


Territorial Challenges in Europe: Data and Evidence

Martin Gauk, ESPON EGTC

What ESPON does?

2





Challenges

Territorial Fragmentation...

- ...a cultural dimension (e.g. diversity)
- ...an social an economic dimension (e.g. disparities)
- ...a political dimension (e.g. discontent)

Network Interdependencies...

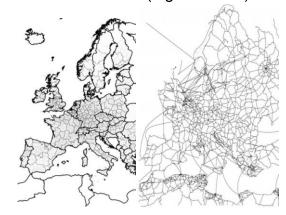
- Subverted distances: Proximity in terms of "connection"
- Increasing flows, spill-overs and externalities
- Network industries create "new territorialities" (e.g. global digital markets)



Functional mismatch

at all scales

- ...administrative dimension (e.g. **delivery**)
- ...functional dimension (e.g. demand)



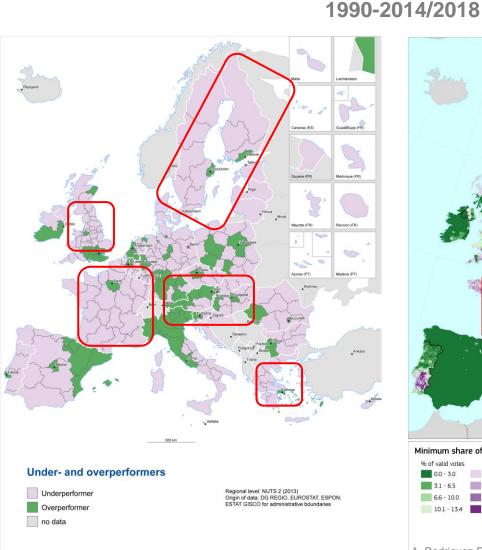


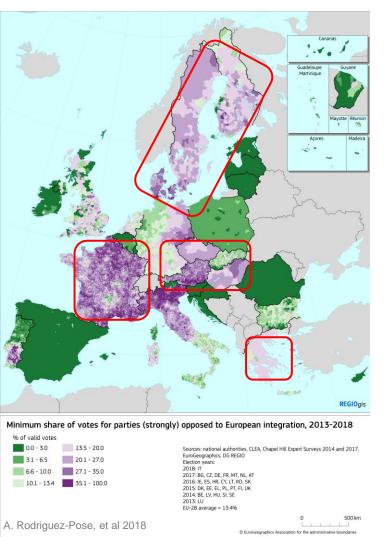
Territorial Fragmentation...

- ...a cultural dimension (e.g. **diversity**)
- ...an social an economic dimension (e.g. **disparities**)
- ...a political dimension (e.g. **discontent**)

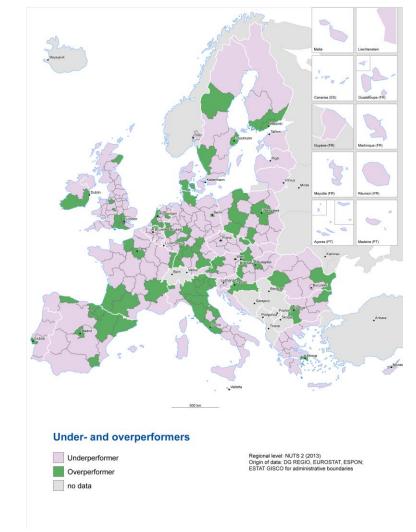


Economic disparities, geographies of the EU discontent and the revenge of the "places that do not matter"





2030



Network Interdependencies...

- Subverted distances: Proximity in terms of "connection"
- Increasing flows, spill-overs and externalities
- Network industries create "new territorialities" (e.g. global digital markets)



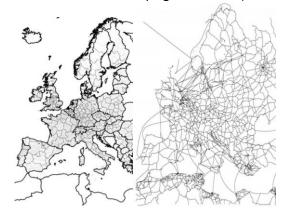
Interdependencies: from territorial "borders" to "hub and spoke" networks"



Functional mismatch

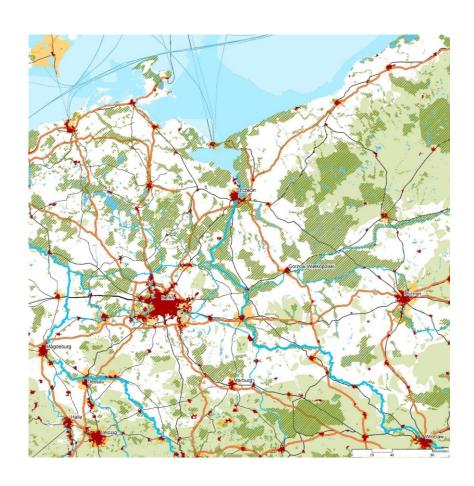
at all scales

- ...administrative dimension (e.g. delivery)
- ...functional dimension (e.g. demand)



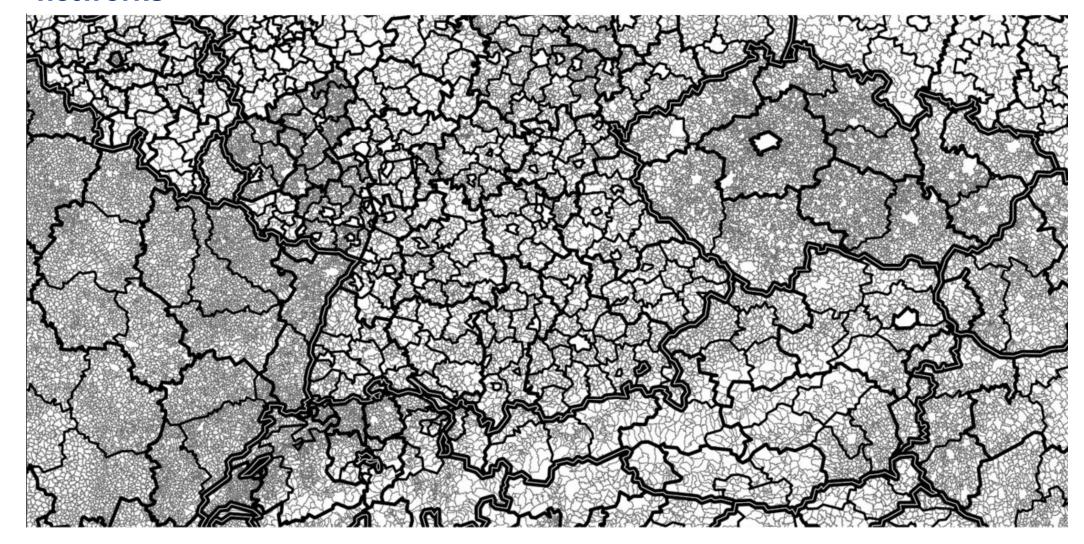
Administrative fragmentation and the failure to respon and deliver:

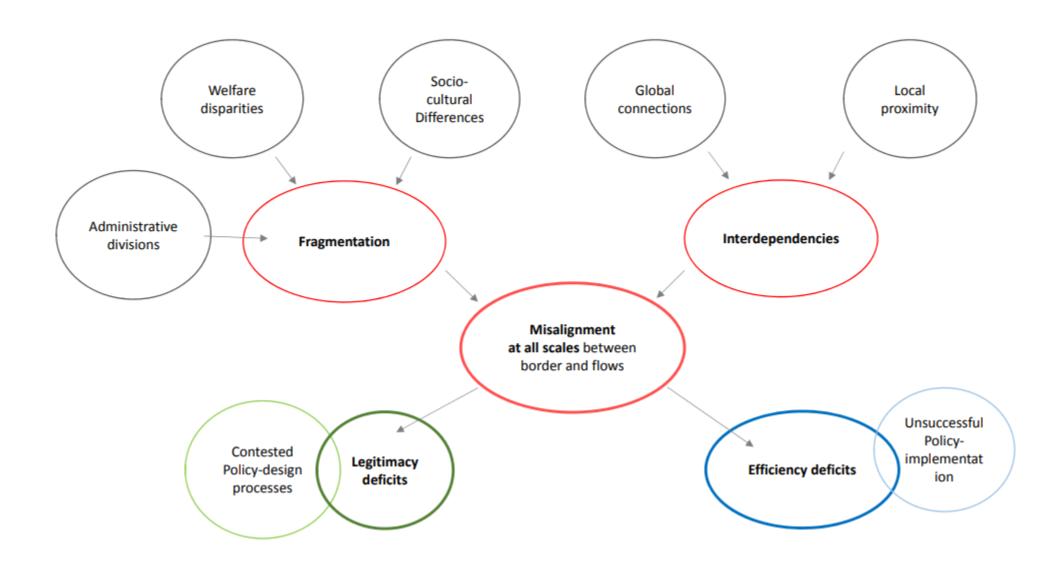
a mismatch between "functions" and "jurisdictions"



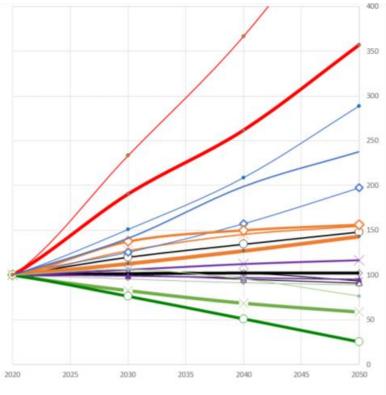


Interdependencies: from territorial "borders" to "hub and spoke" networks"





Trends and disruptions impacting territorial challenges



quistion (evolution along enlargements) (millions). Historic data based on UNIDESA, Porecast based on EU Reference Baseline (Ecfin AGE2018

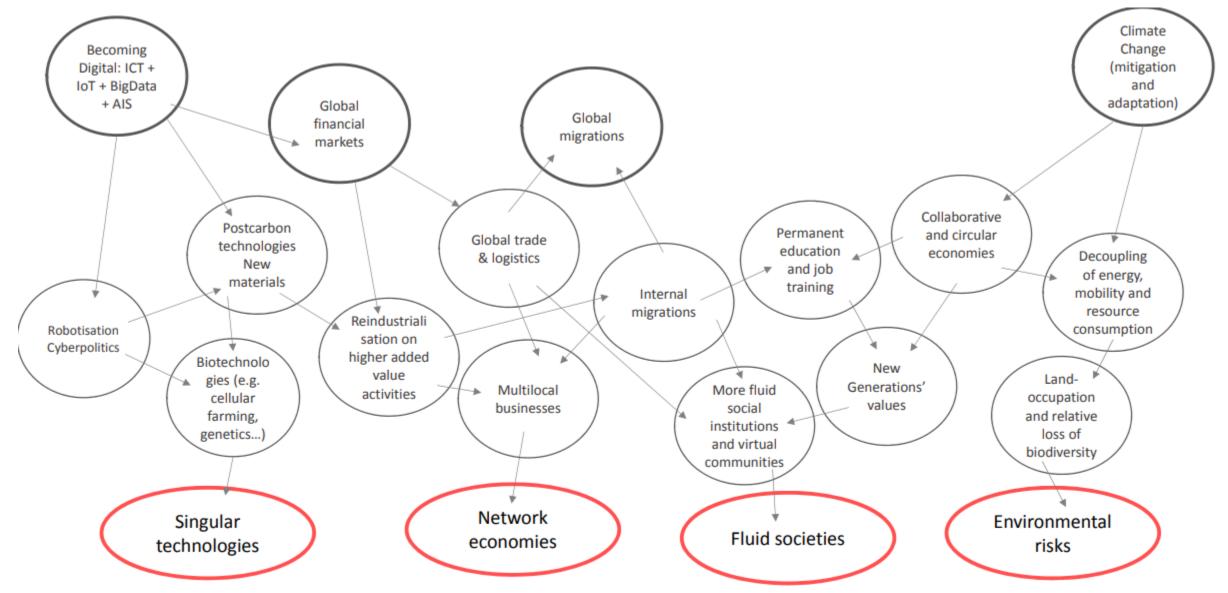
- CO2 emissions (2010-100). Historic databased on 89 / DG Energy: Forecast based on 8U Reference Septime (DG Energy)

Marking traffic intend. Historic data based on Drewry, Forecast based on Drewry, W7D, LNCTAD, AMECO

-- Landtake ijha), Historic data based on UNDESA, Forecast based on ET2050

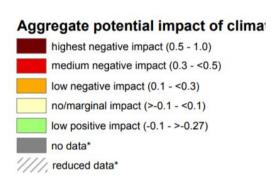
5. Workplaces taken by computers, robots and Al. Historic data based on Singularity Hub Forecast based on Singularity Hub

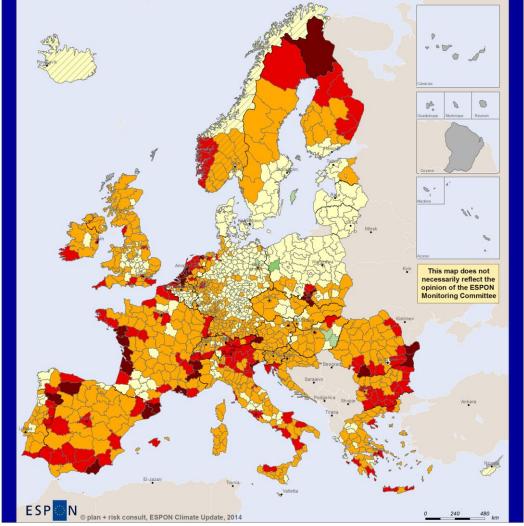
Living in "Pervasive Uncertainity"



Environmental trends

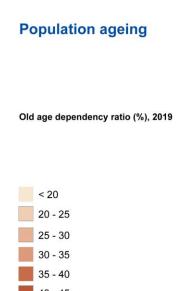
- Pathogens resistant to antibiotics
- Consensus on Climate Change (climate change vulnerability (adaptation, mitigation)
- Decoupling of energy, mobility and resource consumption from growth
- Cellular agriculture and biomedicine beyond limits
- Electrification of energy markets



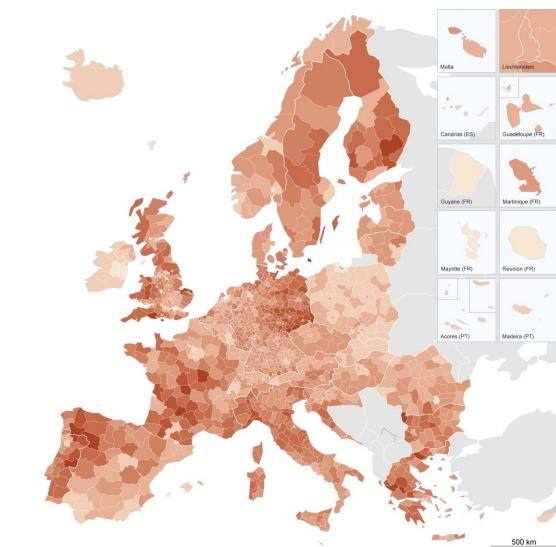


Social trends

- Ageing and increasing dependencies
- Increasing external migrations and temporary internal migrations
- Concentration and dispersion processes of internal migrations
- More fluid social institutions. Virtual and project-oriented communities
- New Generation's values: 'place attachment' vs 'global vocation'
- Social disparities because of education and job training
- Discontent, growing euroscepticism/anti-globalism

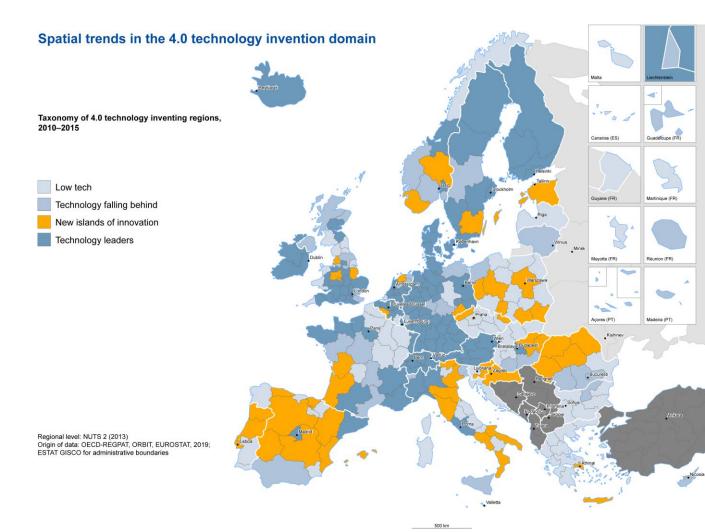


Regional level: NUTS 2 (2013) Origin of data: EUROSTAT, 2020; ESTAT GISCO for administrative boundarie



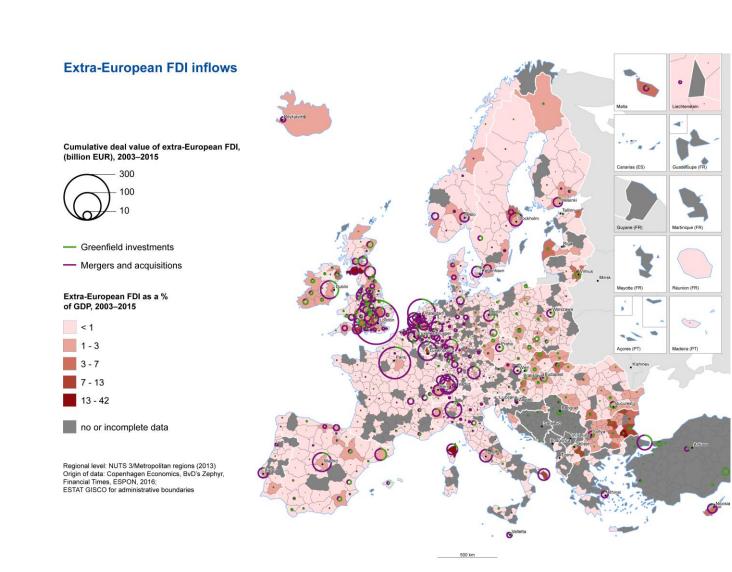
Technological trends

- Almost all citizens are now internet users
- New technologies (Automatisation and robotics, IoT, AI, Big Data, bio and nanotechnologies, 5G) are driving the 4th industrial revolution
- New dilemmas: Overview vs surveillance, participatory (democratic) immediacy or noise, no-one left behind
- Technological leapfrogs
- Challenges with digital monopolies
- China's new Digital Silk Road



Economic trends

- 2008 impacts
- Increase in public debt
- Subverted distances: "glocal" polarisation
- "Multilocal" businesses: hyperconnected and further decentralised activities
- Global trade becoming more relevant than European trade
- Reindustrialisation in European regions
- Collaborative economies
- Circular economy



Governmental trends

- Increasing problems of efficiency and legitimacy in governments
- New models of citizen participations
- New geopolitics, global agreements
- Increasing security concerns

19

More interdependencies between regions

Wild cards

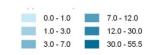
- 2008 economic crisis
- Migration crisis
- Brexit
- COVID-19 pandemic and economic crisis

Asylum applications, 2016

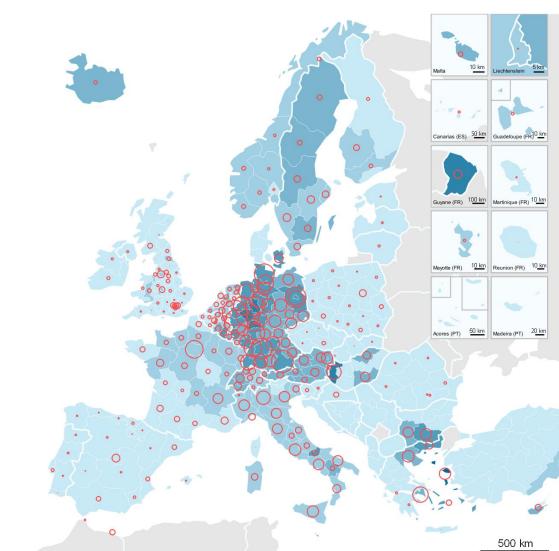
Asylum applications

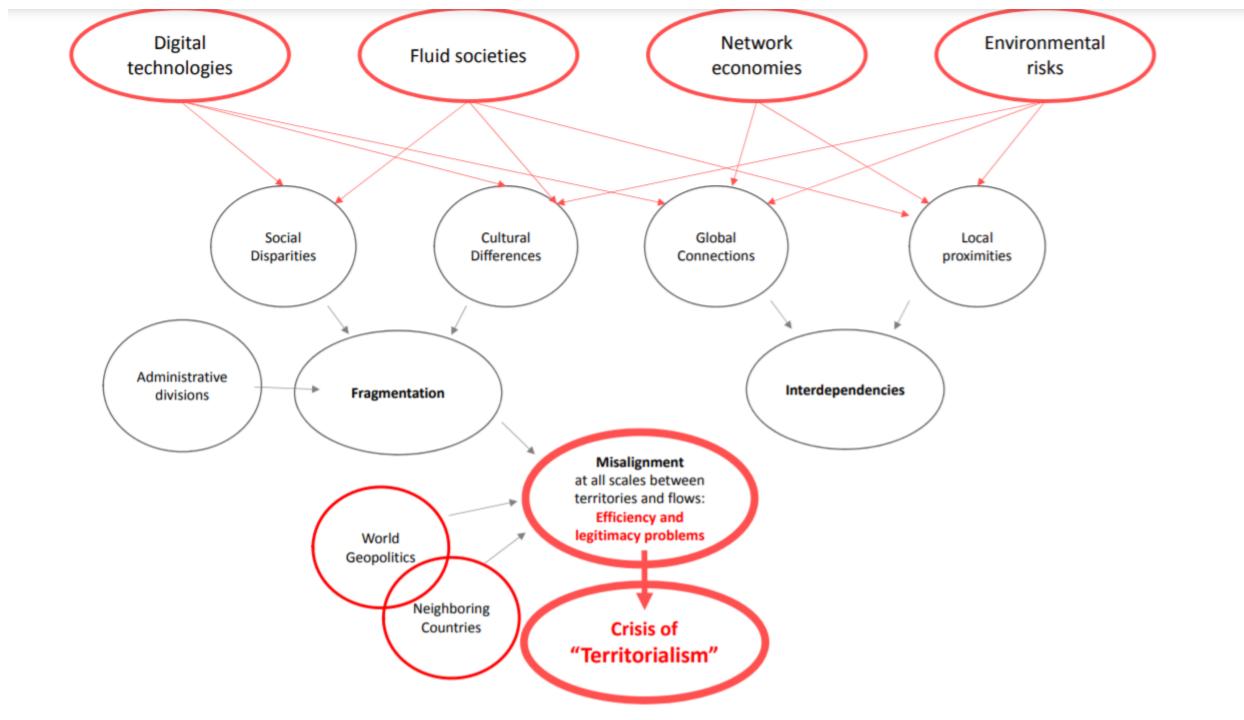
5000 54000 max: Düsseldorf European map

Asylum applications per capita

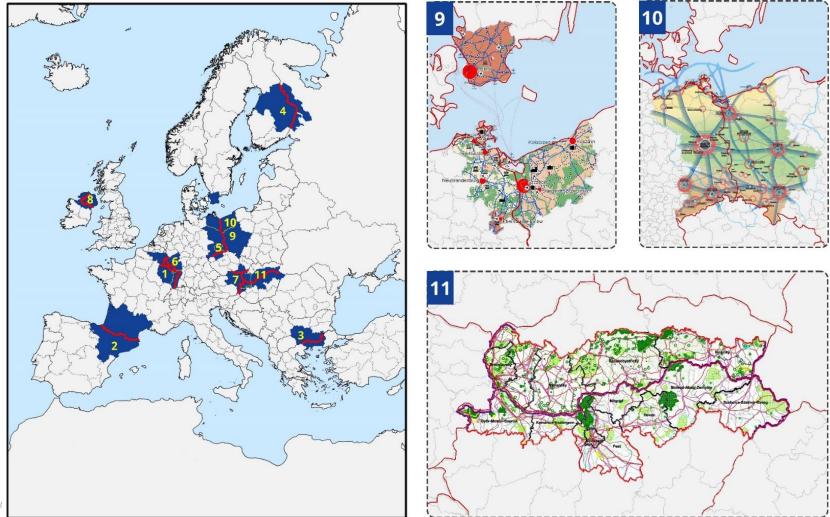


Regional level: NUTS 2 (2013) Origin of data: ESPON, 2019; ESTAT GISCO for administrative boundarie





New functional structures are being created

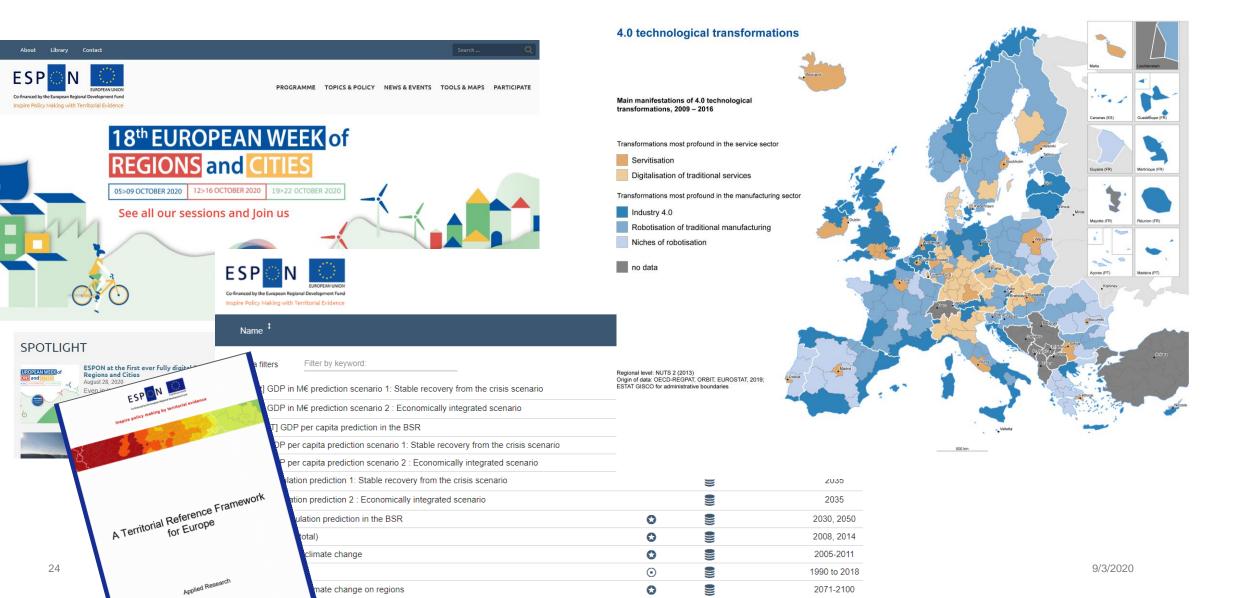


Conclusions: insights to inspire TA2020+

- Core values and key policy-aims: Values remain mostly valid from previous TAs
 - It is convenient to express values according to nowadays <u>European political narratives</u>
 - It is necessary to define a <u>systematic monitoring</u>: how these values (and targets) are achieved overtime
- Territorial Cooperation: Cooperation becomes an "imperative" because of fragmentation
 - Emerging "functional areas" from local to continental need new legal frameworks: e.g. enabling ETGC
 - European policy-design and implementation requires "place-based" instruments: CLLD, ITI
 - European policies have to induce a significant improvement of quality of government everywhere
- "Territorial" Dimension of Policies: Spatial Development as useful planning framework
 - Spatial planning as a <u>comprehensive reference</u> for cross-border integration
 - Spatial planning as "bottom-up" <u>stable reference</u> to sectorial policies at all scales
- Cohesion policies: Need for stronger, taylor-made and just-in-time redistributive policies



ESPON Evidence and TA2030



References

- ESPON <u>European Territorial Reference Framework</u>
- ESPON World in Europe
- ESPON <u>Territorial Trends in Technological Transformations</u>
- ESPON <u>Database</u>
- A. Rodriguez-Pose, L. Dijkstra, H. Poelman "The Geographies of EU Discontent"











martin.gauk@espon.eu

www.espon.eu