



PENTAHELIX

Stakeholder engagement for SECAP development and implementation

PentaHelix project

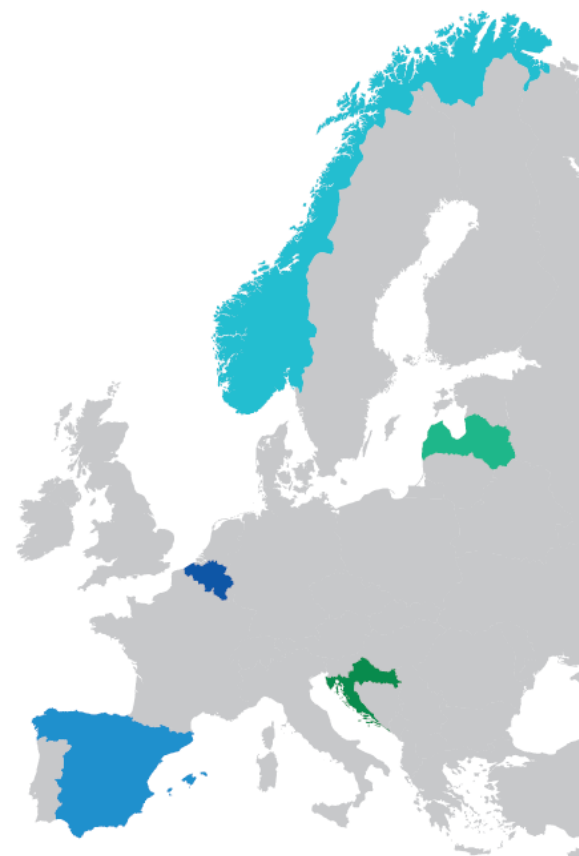
Prof.dr.sc. Neven Duić, doc.dr.sc. Tomislav Pukšec, doc.dr.sc. Goran Krajačić, Ana Lovrak

Zagreb, 18.5.2021.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 784994

- Horizon 2020 project
- 11 partners from 5 countries: Norway, Belgium, Latvia, Spain and Croatia
- Project coordinator: Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb



The goal of the project

PentaHelix project aims to **empower local and regional authorities to find innovative and cost effective approaches** to develop, finance, implement and improve sustainable energy and climate action plans (SECAP)

Sustainable energy and climate action plans (SECAP)

the signatories are committed to reduce greenhouse gas emissions by at least **40% by 2030** and to adopt an integrated approach **to climate change mitigation and adaptation** while encouraging the use of renewable energy sources and improving energy efficiency.



 **10,614**
Signatories

 **53**
Countries

The main objective

The main objective is to **develop and implement the PentaHelix method** that will be used to support the development and implementation of SECAP measures in collaboration with other key stakeholders. We identified as key stakeholders:

- **Public authorities** (local, regional, national and international);
- **Industry** (and businesses such as SMEs, farmers, trade etc);
- **Academia** (research and educational institutes);
- **NGOs** (associations, organizations, etc.)
- **Citizens** (house owners, car owners, commuters etc).

Task force groups

In order to **structure the inclusion process** and ensure the involvement of all parts of society, task force groups have been established in pilot cities, which tested the PentaHelix method.

The task force groups include representatives of all five groups of the PentaHelix approach.

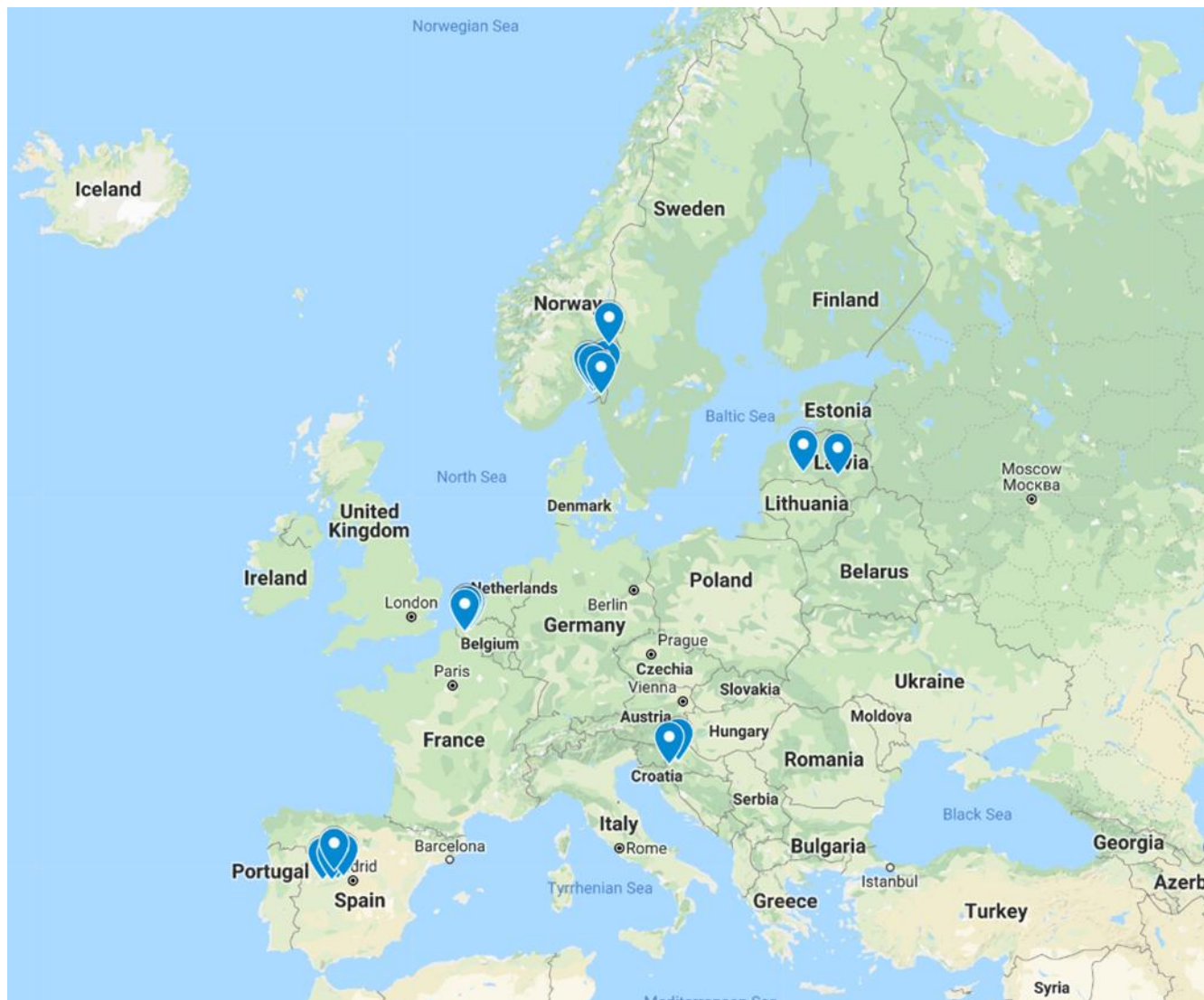
The main purpose of a task force group is **to serve as an advisory body and to provide an environment for useful discussions** related to the development and implementation of SECAP.

Application of the PentaHelix approach

Involvement of stakeholders in the co-creation process of SECAP development.

Task force meeting organisation in cities and municipalities:

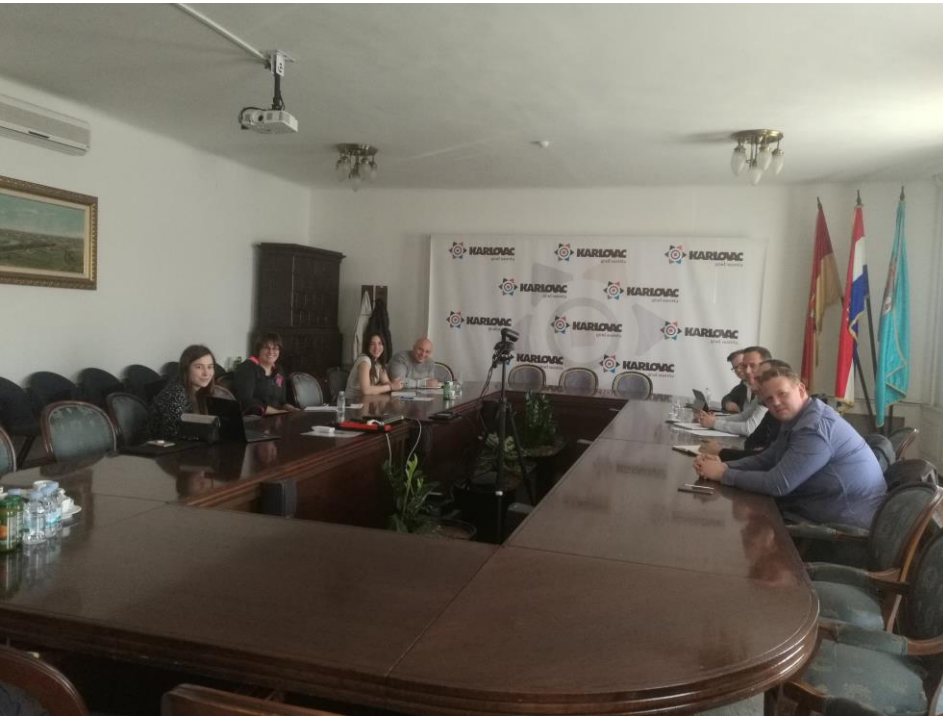
- Stakeholders propose mitigation and climate adaptation measures
- Stakeholders define the needs of the city or the needs of stakeholders
- They comment and amend the proposed measures
- Task force group define the stakeholders responsible for the implementation of certain measures
- Stakeholders cooperate in the implementation of measures



5 COUNTRIES

**30 cities/
municipalities**

23 SECAPs





**AKCIJSKI PLAN ENERGETSKI ODRŽIVOG RAZVITKA I
PRILAGODBE KLIMATSKIM PROMJENAMA
GRADA VELIKE GORICE**

SUSTAINABLE ENERGY AND CLIMATE ACTION PLAN - SECAP

Zagreb, svibanj 2020.



**AKCIJSKI PLAN ENERGETSKI ODRŽIVOG RAZVITKA I
PRILAGODBE KLIMATSKIM PROMJENAMA
GRADA KARLOVCA**

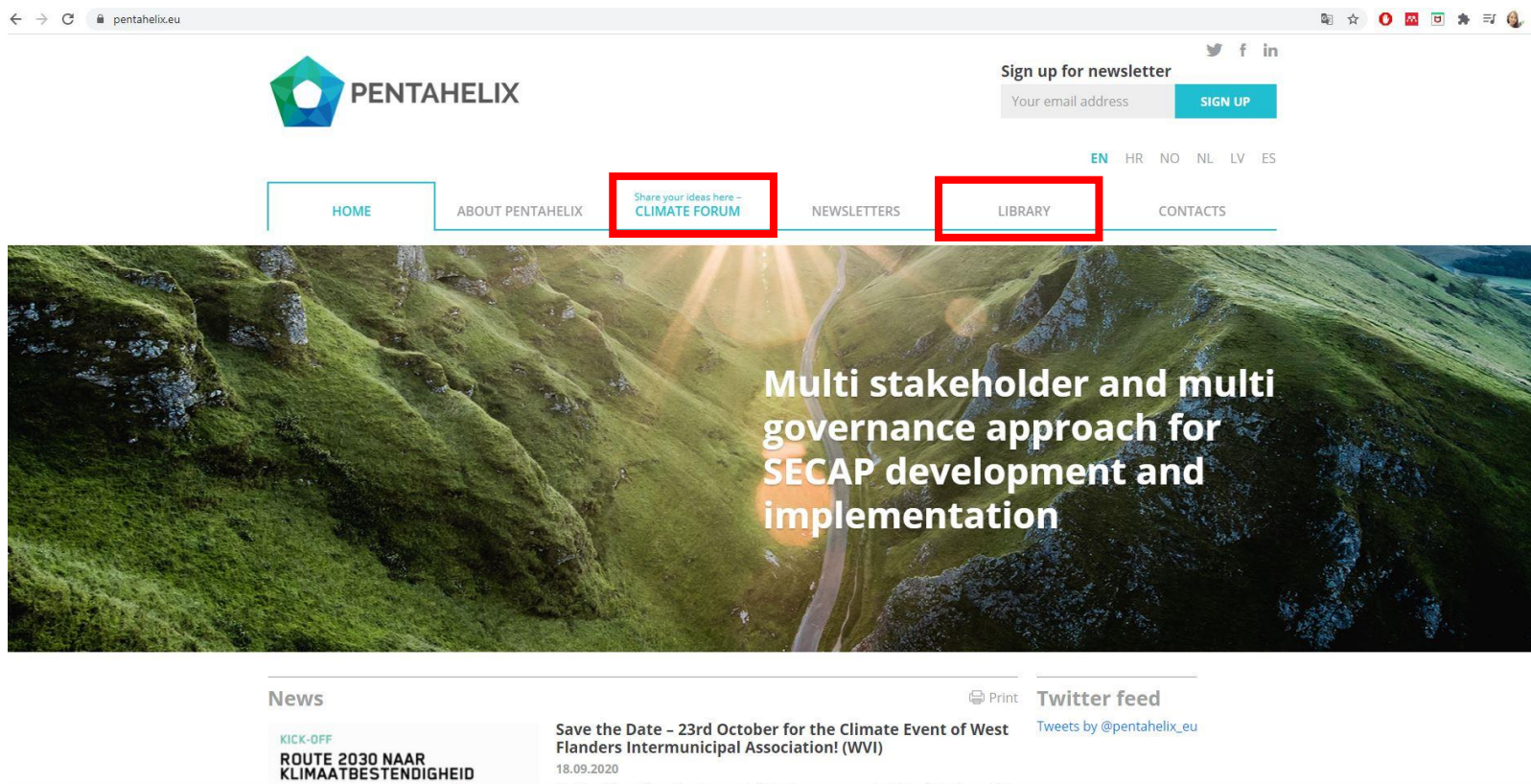
SUSTAINABLE ENERGY AND CLIMATE ACTION PLAN - SECAP

Zagreb, ožujak 2020.

Benefits of an integrated approach to planning and implementation

- Step up from generic measures to measures tailored to the city/municipality and stakeholders
- Getting a broader picture of the impact of certain measures on other sectors
- Increase of the social inclusion in the implementation of CO2 reduction measures and adaptation to climate change
- Improved coordination of measure implementation
- A plan that presents realistic and preferred measures, and at the same time serves to attract investment

Literature on the application of the PentaHelix approach

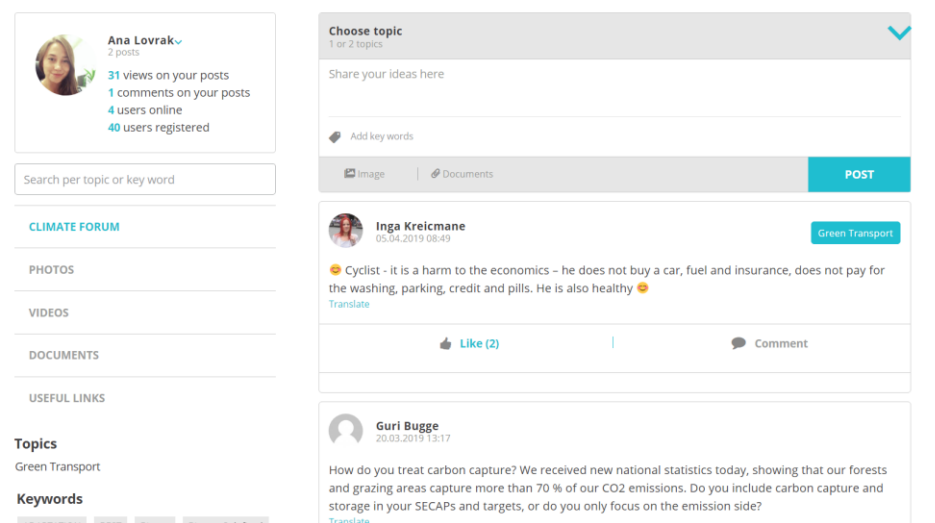


The screenshot shows the PentaHelix website interface. At the top left is the PentaHelix logo. To the right is a newsletter sign-up form with a 'SIGN UP' button. Below the logo is a navigation menu with the following items: HOME, ABOUT PENTAHELIX, CLIMATE FORUM (highlighted with a red box), NEWSLETTERS, LIBRARY (highlighted with a red box), and CONTACTS. The 'CLIMATE FORUM' item includes the text 'Share your ideas here -'. Below the navigation menu is a large banner image of a green mountain landscape with a road. Overlaid on the banner is the text: 'Multi stakeholder and multi governance approach for SECAP development and implementation'. At the bottom of the page, there is a 'News' section with a 'Print' icon and a 'Twitter feed' section with the text 'Tweets by @pentahelix_eu'. A news item is visible with the title 'KICK-OFF ROUTE 2030 NAAR KLIMAATBESTENDIGHEID' and the date '18.09.2020'. Another news item is partially visible with the title 'Save the Date - 23rd October for the Climate Event of West Flanders Intermunicipal Association! (WVI)' and the date '18.09.2020'.

Source: <https://pentahelix.eu>

PentaHelix platform

- Online platform for SECAP development
- enables communication and exchange of experiences
- includes free materials that can be used directly without copyright infringement)
- free registration



The screenshot displays the PentaHelix Climate Forum interface. On the left, a user profile for Ana Lovrak is shown with 2 posts, 31 views, 1 comment, 4 users online, and 40 registered users. Below this is a search bar and a navigation menu with categories: CLIMATE FORUM, PHOTOS, VIDEOS, DOCUMENTS, and USEFUL LINKS. The main content area features a 'Choose topic' dropdown set to 'Green Transport'. A post by Inga Kreicmane, dated 05.04.2019 08:49, discusses the economic impact of cycling. Below it, a post by Guri Bugge, dated 20.03.2019 13:17, asks about carbon capture treatment. The interface includes options to share ideas, add keywords, and post content.

Source: <https://pentahelix.eu/climate-forum-7/>

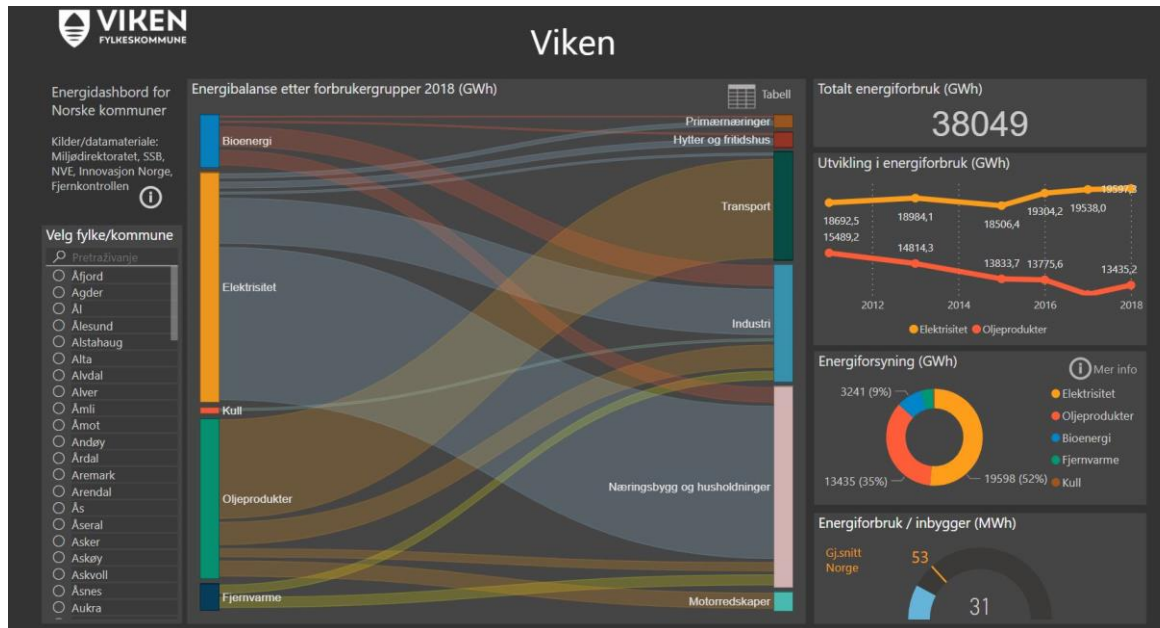
The materials developed in the scope of the project

- Guidelines on how to establish a task force group and implement the PentaHelix method
- Results of the research on the most relevant drivers and barriers to stakeholder involvement in the SECAP development process
- Guidelines on climate communication
- More is available at:
<https://pentahelix.eu/library/>



Additional results

- Norwegian municipalities signing the CoM



<https://pentahelix.eu/the-climate-dashboard-and-the-energy-dashboard-norway/>

Additional results

- Summer 2020: Flemish call to submit projects for climate action based on participation
 - Explicit condition: the project idea should be raised during a local climate panel
 - Name of the call: “project call local climate action”

Conclusion

- Cities are **leaders of the energy transition**
- Achieving the targets set by SECAP requires the involvement of a **large number of stakeholders**
- The key to successful SECAP is **a good stakeholder engagement process**
- It is necessary to involve a **local or regional task force group** that would structure the inclusion process and ensure the involvement of all parts of society



PENTAHELIX

Thank you for your attention !



Neven Duić



Tomislav Pukšec



Goran Krajačić



Ana Lovrak

www.pentahelix.eu



[@pentahelix_eu](https://twitter.com/pentahelix_eu)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 784994