

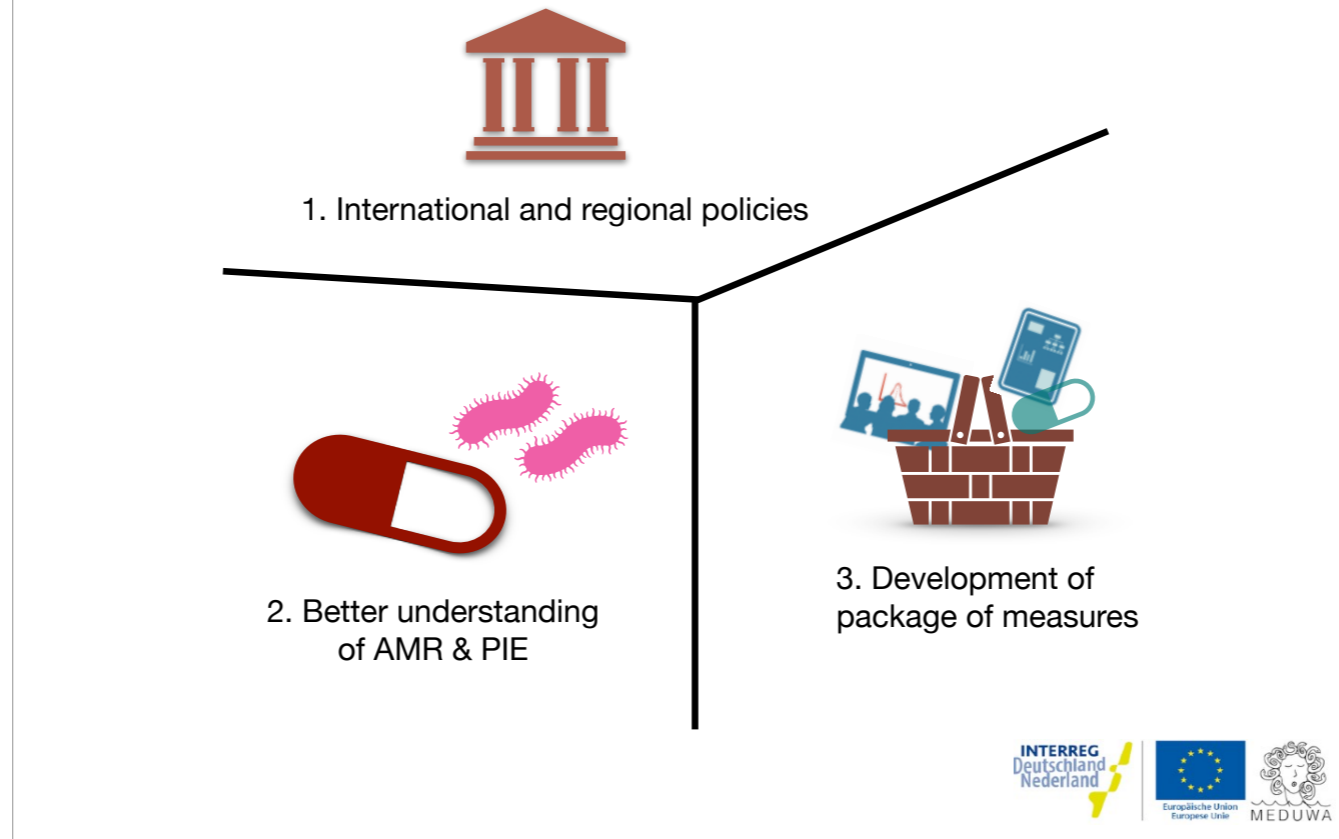


MEDUWA-Vecht(e) Project Partner Evaluation

Oktober 8 2020

This evaluation, carried out by 21 out of 25 partners, tries to get a picture of MEDUWA's learning process and lessons learned. It is also a tool to determine the societal value of the project. An evaluation report is being prepared. An evaluation by stakeholders and the project management is still missing. Recommendations will be formulated for a possible follow-up project. Today you will receive a summary based on the available received input.

Societal value of MEDUWA-Vecht(e)



The societal usefulness of the MEDUWA- Vecht(e) project has been measured by: 1) its contribution to the realisation of international and regional policy goals; 2) better understanding of antimicrobial resistance and medicines in the environment; and 3) whether a package of practical measures has been developed to control the medicinal environmental cycle.

MEDUWA & UN Agenda 21

§19. Environmentally sound management of hazardous substances

- Reduce risks hazardous substances
- Take into account the **full life cycle** of chemicals
- Apply **alternatives to the hazardous substances**
- Use of non-chemical technologies
- **Replace harmful substances** by harmless substances
- **Prevent pollution** and regulate chemicals for each compartment of the environment, including food and water and consumer goods.



The MEDUWA-Vecht(e) consortium contributed in a satisfactory manner to the implementation of international policies and programmes on the reduction of chemical and biological pollutants in water and soil.

The UN Agenda for the 21st Century from 1992 is the policy basis for our foundation, and in fact also the policy basis for MEDUWA-Vecht(e). It already advocates a chain approach and green alternatives.

MEDUWA contributes to 7/17 SDGs



3 GOOD HEALTH AND WELL-BEING

- Avoid misuse of addictive substances
- No dangerous chemicals
- Avoid contamination of **air, water and soil**



6 CLEAN WATER AND SANITATION

- Avoid hazardous chemicals **in water**



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

- Clean, environmentally conscious industry
- More research & development



11 SUSTAINABLE CITIES AND COMMUNITIES

- Reducing environmental impact
- Waste management



12 RESPONSIBLE CONSUMPTION AND PRODUCTION

- environmentally conscious handling of chemicals
- reduce emissions to **air, water and soil**
- sustainable methodologies at multinationals
- information and awareness



14 LIFE BELOW WATER

- Preventing marine pollution



15 LIFE ON LAND

- Reduce the impact on biodiversity



MEDUWA contributes to 7 out of 17 sustainability goals (SDGs) of the United Nations.

Areas for action PIE Strategy COM(2019)128	MEDUWA
1. Increase awareness & prudent use	✓
2. Development of biodegradable medicines	✓
3. Improve environmental risk assessment	✓
4. Reduce wastage & improve waste management	✓
5. Expand environmental monitoring	✓
6. Fill knowledge gaps	✓
EU Green deal COM(2019) 640	
§ 2.1.6 Significant reduction antibiotic use	✓
§ 2.1.8 Measures to stop pollution by medicines	✓



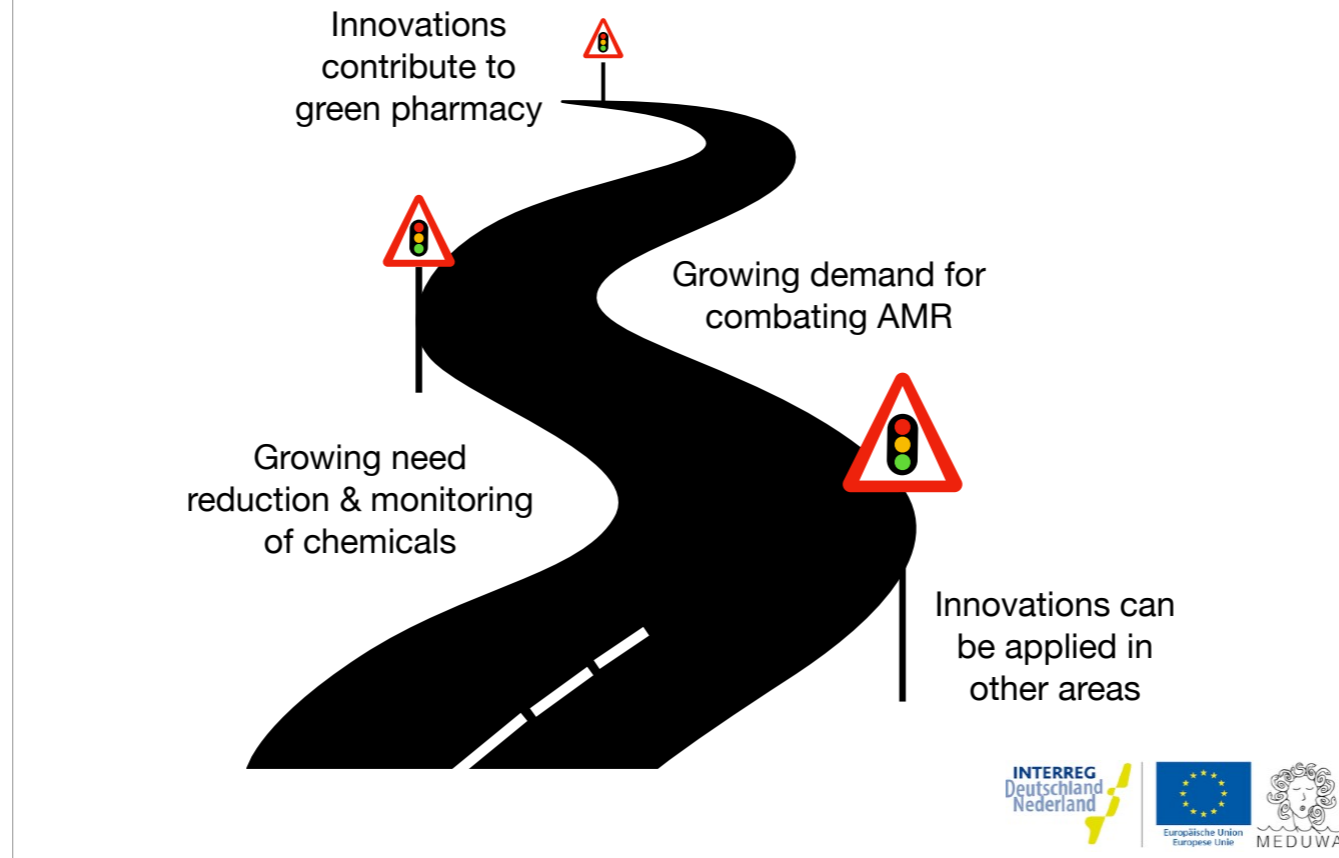
The consortium also contributed to all six areas of action of the European strategy on medicines in the environment, and the two related actions of the European Green Deal.

INTERREG-VA C(2014)8740, C(2015)8615	MEDUWA-Vecht(e)
Priority 1	✓
- Research, technology and innovation	✓
- Cross-border cooperation between research institutes, small companies and institutes for higher education for development of products and services (pilots and first production), for exchange of technologies and for social and environmental innovation.	✓
Sector Agribusiness/Food	
- Better quality of products (healthy food)	✓
- Environmental protection	✓
- Prevention of formation/spreading of multi-resistant organisms	✓
Sector Health & Life Sciences	
- Prevention of formation/spreading of multi-resistant organisms	✓
Sector High Tech Systems & Materials	
- Development and introduction of new products and services, like water technology, sensor technology, ICT.	✓

Sources:
https://www.deutschland-nederland.eu/wp-content/uploads/2015/12/151130_Samenwerkingsprogramma_INTERREG_Deutschland-Nederland_nl.pdf
https://www.deutschland-nederland.eu/wp-content/uploads/2015/12/151130_Kooperationsprogramm_INTERREG_Deutschland-Nederland_de.pdf



Application of innovations on the long term



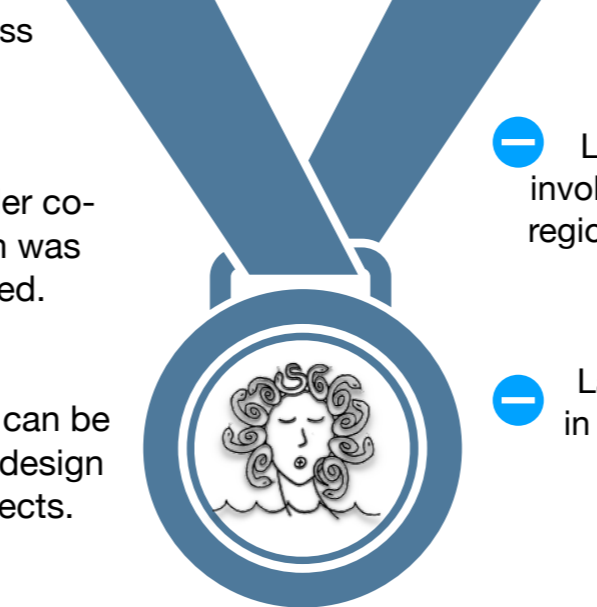
Another indication of the societal impact of meduwa is the use of meduwa innovations on the long term. A statement on this is still too premature. It is expected that the innovations will be applied sustainably because: a) there is a global demand for combating antimicrobial resistance; b) there is an increasing need for the reduction and monitoring of chemicals in the environment; c) the innovations can be applied in other areas; and d) some of the innovations contribute to the development of green pharmacy and chemistry.

Output of MEDUWA-Vecht(e)



Good communication about the results is crucial for the social impact of the project. The partners and project management share the results with different target groups through multiple channels. This is the output we expect at the end of 2020.

Conclusions

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- ✓ Greater awareness of PIE & AMR
 - ✓ Cross-border co-production was stimulated.
 - ✓ Project format can be applied in the design of other projects.
 - Lack of active involvement of local, regional and national authorities.
 - Lack of stakeholders in the veterinary chain.



According to the partner evaluation 1. greater awareness of PIE & AMR has been achieved; 2. Cross-border co-production was stimulated; 3. The project format can be applied in the design of other projects concerned with the transition towards a sustainable society. 4. More active involvement of local, regional and national authorities is desirable, and 5. There were too few stakeholders from the veterinary sector involved in the project.

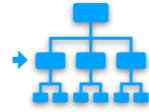
Recommendations



Social sciences, human & veterinary medicine, marketing, design and the arts could contribute.



In future projects local and regional governments must play a more active role.



Stakeholders must have decision-making power.



More attention must be paid to the risks of recreation in water bodies containing high levels of effluent.



- In order to promote the success of innovations throughout the product chain, social sciences, human medicine, veterinary medicine, marketing, design and the arts could contribute throughout the development process.
 - In future projects local and regional governments must play a more active role in the formulation, preparation and execution of the sub-projects.
 - Stakeholders must have decision-making power within their organisations and they must also be representatives of state organisations and policy development.
- In future projects, more attention must be paid to the risks of recreation in water bodies containing high levels of effluent, in particular in relation to contact with pathogens.