

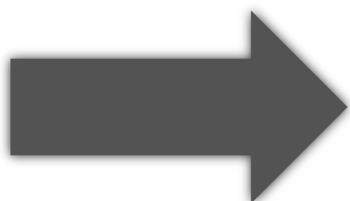
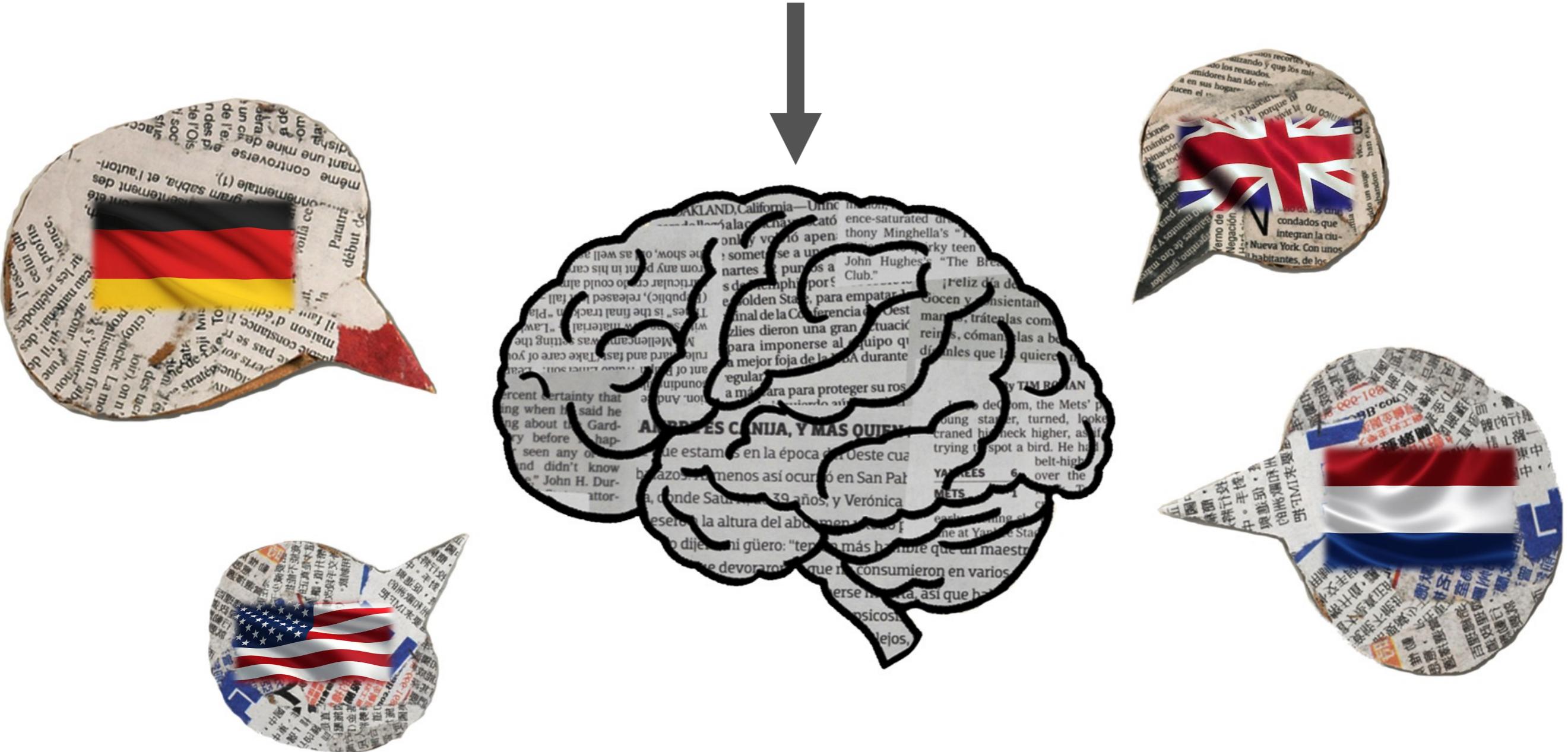
Innovations for safer healthcare in the Dutch-German cross-border region



INTERREG VA project „health-i-care:
innovations for safer healthcare“
MedTech Twente | Business Event
2nd of November 2023

Dr. Corinna Glasner
c.glasner@umcg.nl
Cross-border coordinator for education and
research
University Medical Center Groningen (UMCG)
Groningen, The Netherlands

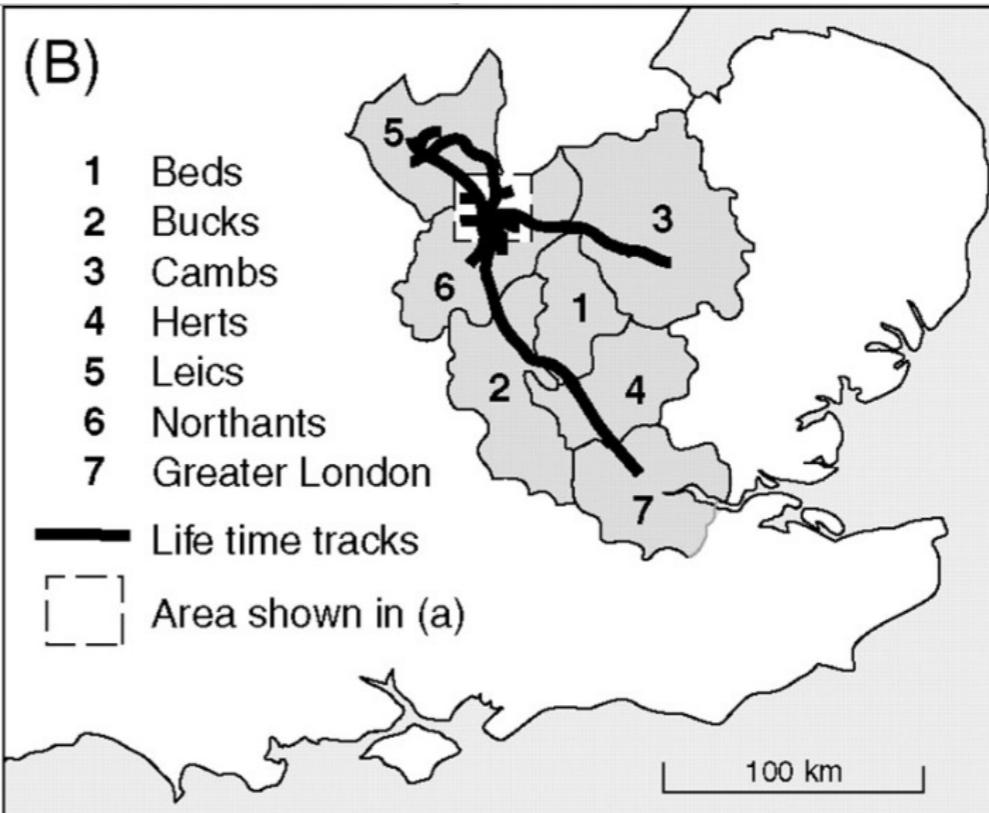
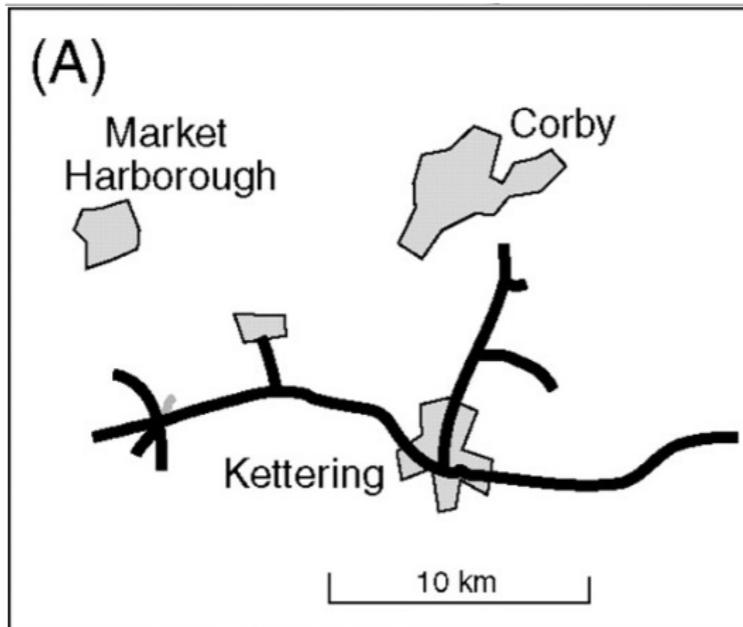
Welcome to my brain 😊



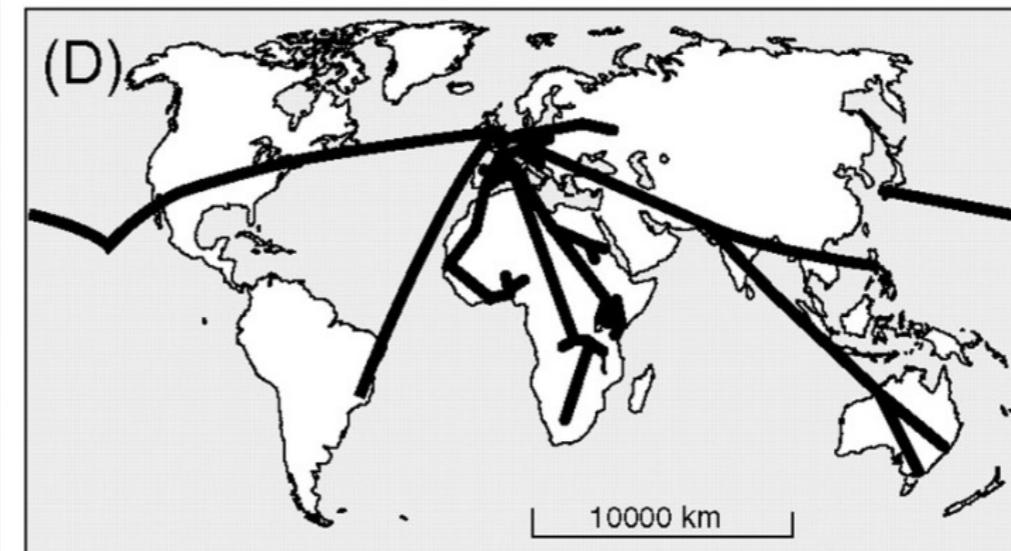
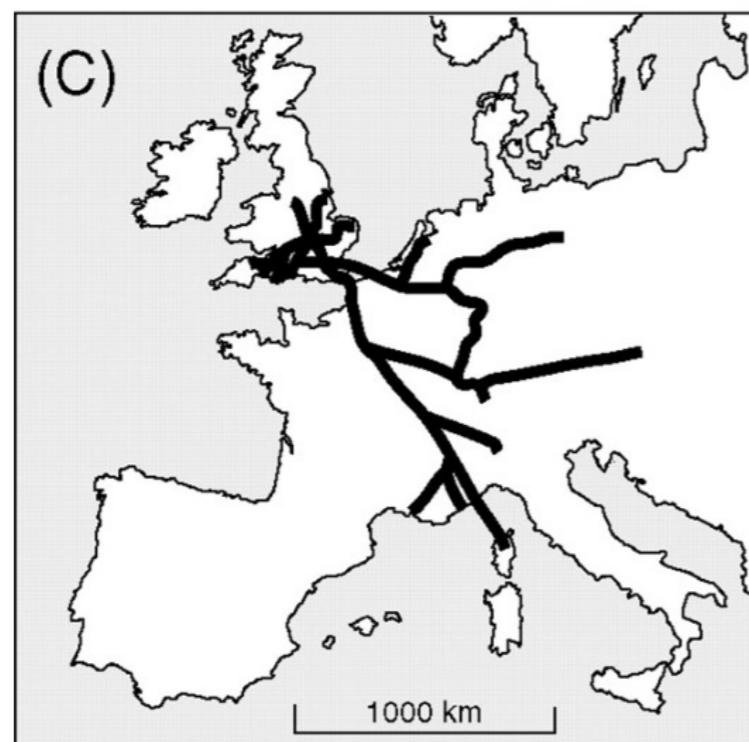
Choice of words? Generalised and documented sind wirklich nicht "passend" hier bij deze onderwerp.



great-
grandmother



mother



grandmother

daughter

Cliff and Haggett Br Med Bull (2004) 69 (1): 87-99

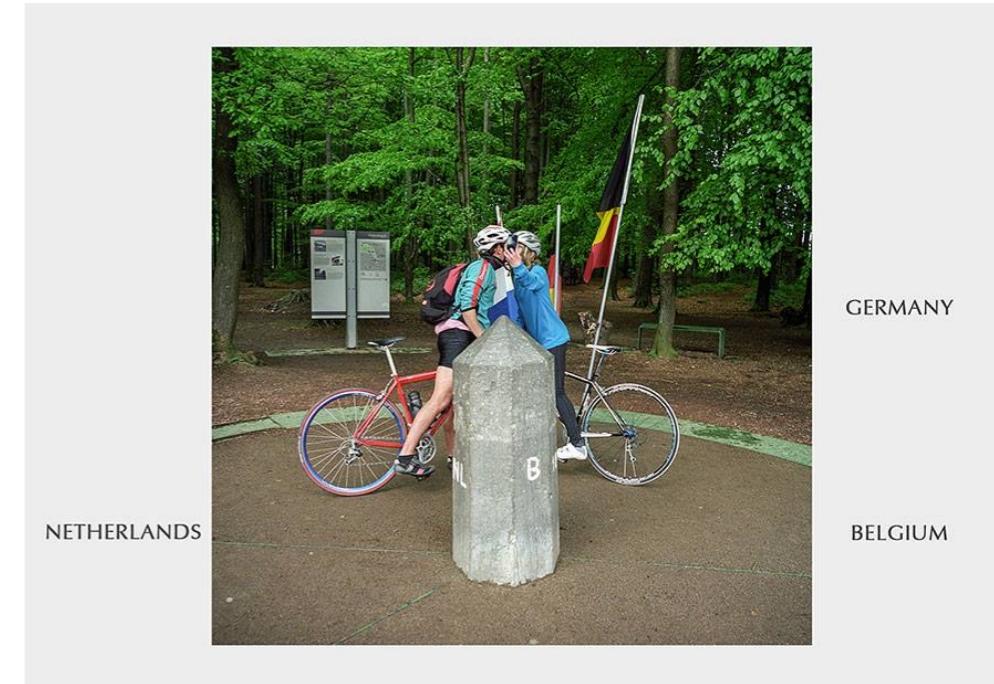


Dutch-German cross-border region



2/ Mobility

74% of respondents in programme Germany-Netherlands have traveled to the other side of the border. This is one of the highest levels of cross-border mobility among all EU border regions, and significantly higher than the EU average of 53%.

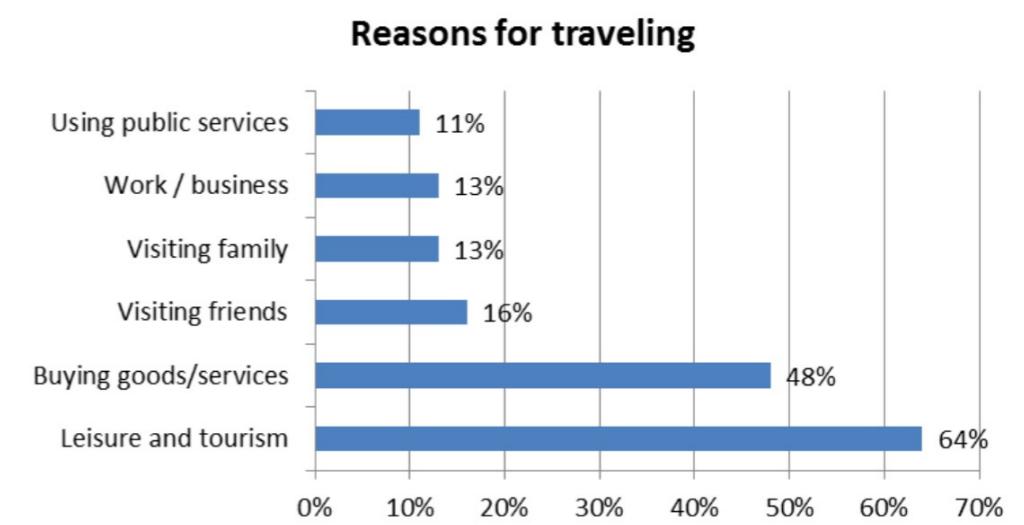
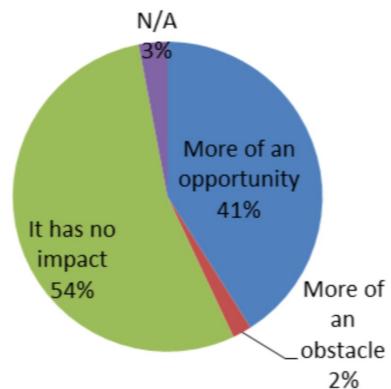


NETHERLANDS

GERMANY

BELGIUM

Living near the border is...

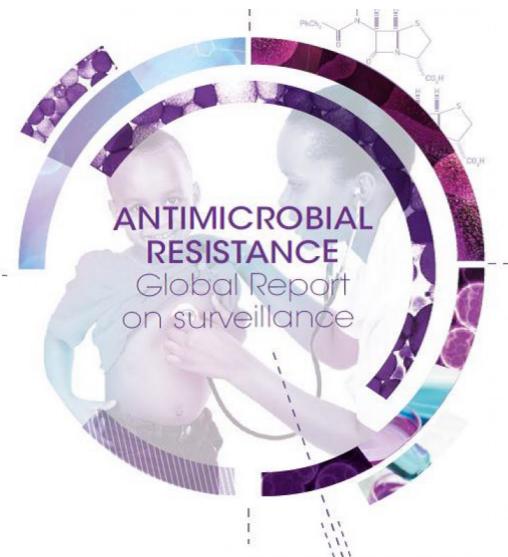




Germany „vs.“ The Netherlands

HEALTH i CARE
Innovations for
safer healthcare





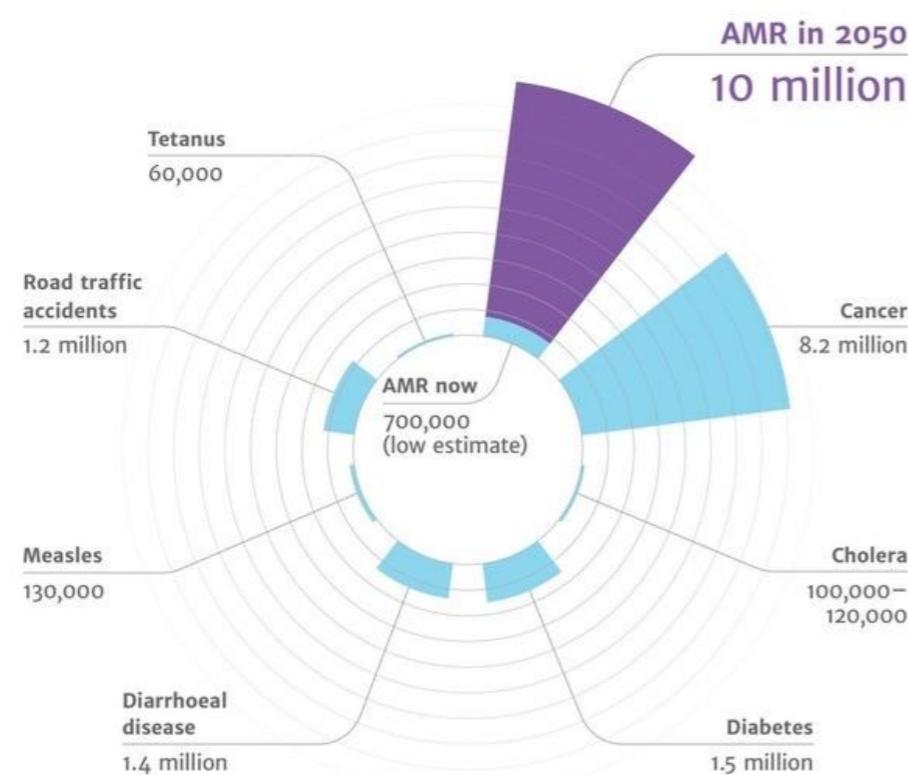
WHO publishes list of bacteria for which new antibiotics are urgently needed

News release

HEALTH i CARE
Innovations for
safer healthcare

27 FEBRUARY 2017 | GENEVA - WHO today published its first ever list of antibiotic-resistant "priority pathogens" – a catalogue of 12 families of bacteria that pose the greatest threat to human health.

DEATHS ATTRIBUTABLE TO AMR EVERY YEAR



WHO priority pathogens list for R&D of new antibiotics

Priority 1: CRITICAL

1. *Acinetobacter baumannii*, carbapenem-resistant
2. *Pseudomonas aeruginosa*, carbapenem-resistant
3. *Enterobacteriaceae*, carbapenem-resistant, ESBL-producing

Priority 2: HIGH

1. *Enterococcus faecium*, vancomycin-resistant
2. *Staphylococcus aureus*, methicillin-resistant, vancomycin-intermediate and resistant
3. *Helicobacter pylori*, clarithromycin-resistant
4. *Campylobacter* spp., fluoroquinolone-resistant
5. *Salmonellae*, fluoroquinolone-resistant
6. *Neisseria gonorrhoeae*, cephalosporin-resistant, fluoroquinolone-resistant

Priority 3: MEDIUM

1. *Streptococcus pneumoniae*, penicillin-non-susceptible
2. *Haemophilus influenzae*, ampicillin-resistant
3. *Shigella* spp., fluoroquinolone-resistant



Tackling differences together

HEALTH i CARE
Innovations for
safer healthcare

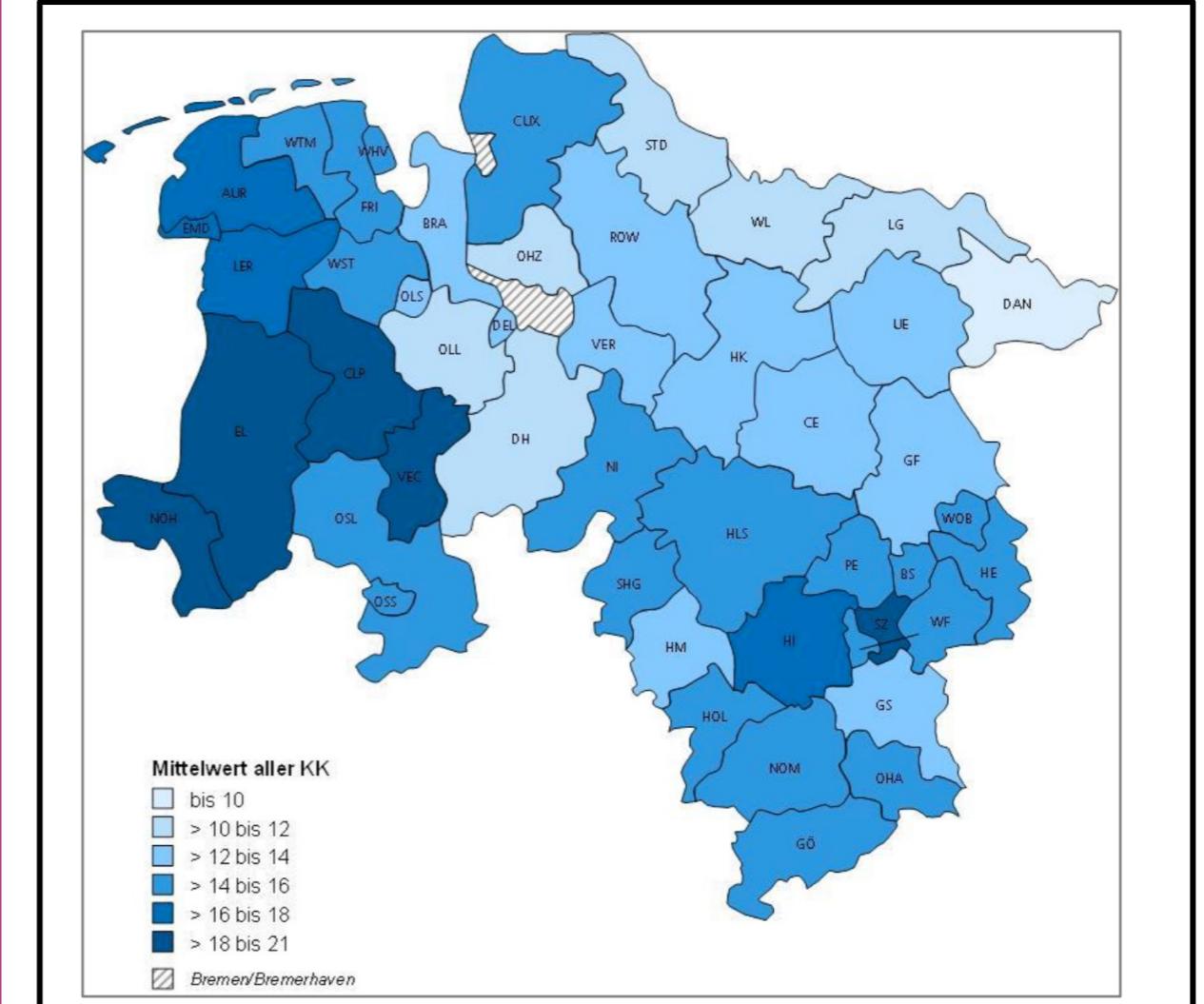
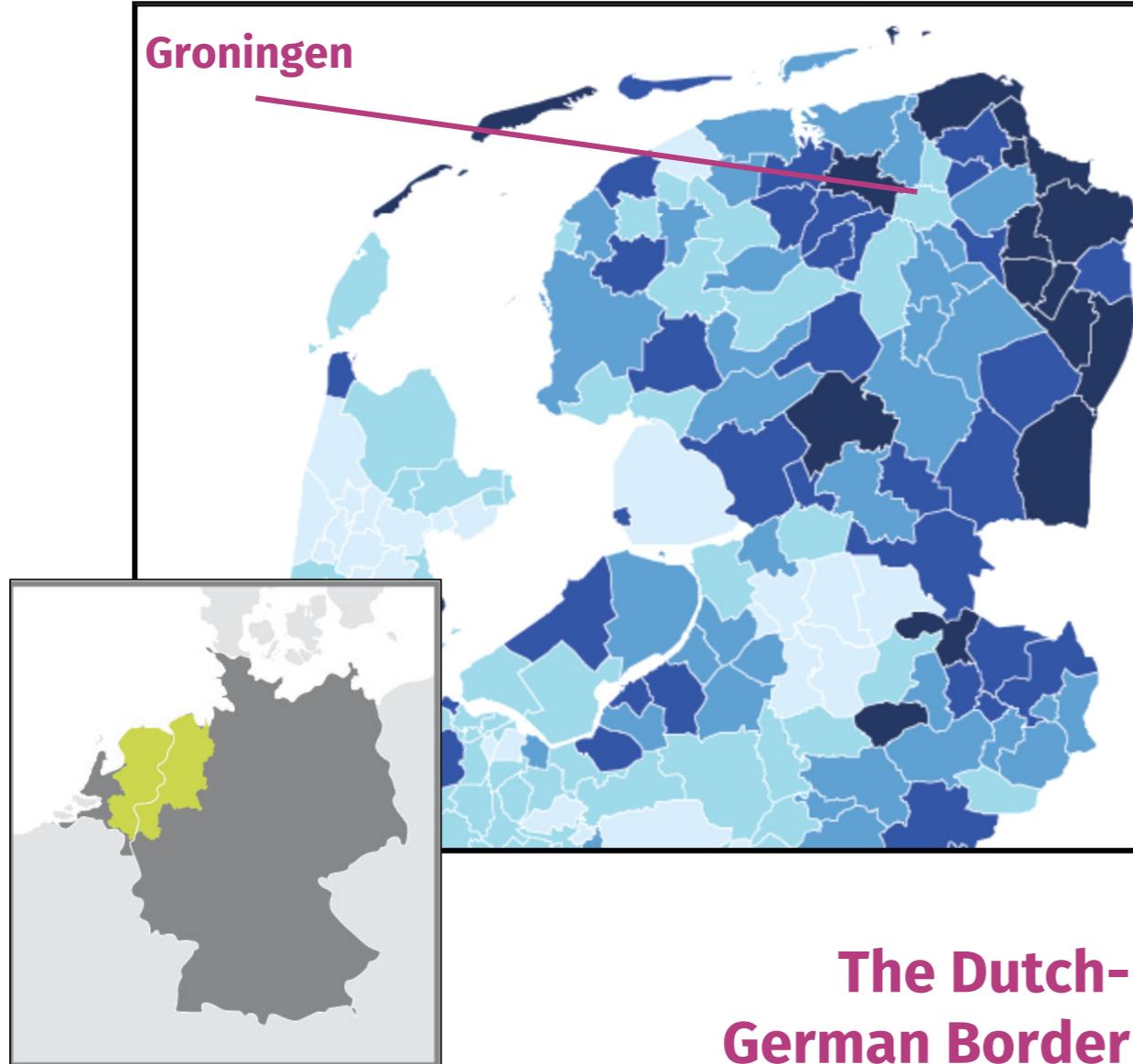
valents (FTE) per



TOGETHER ☺



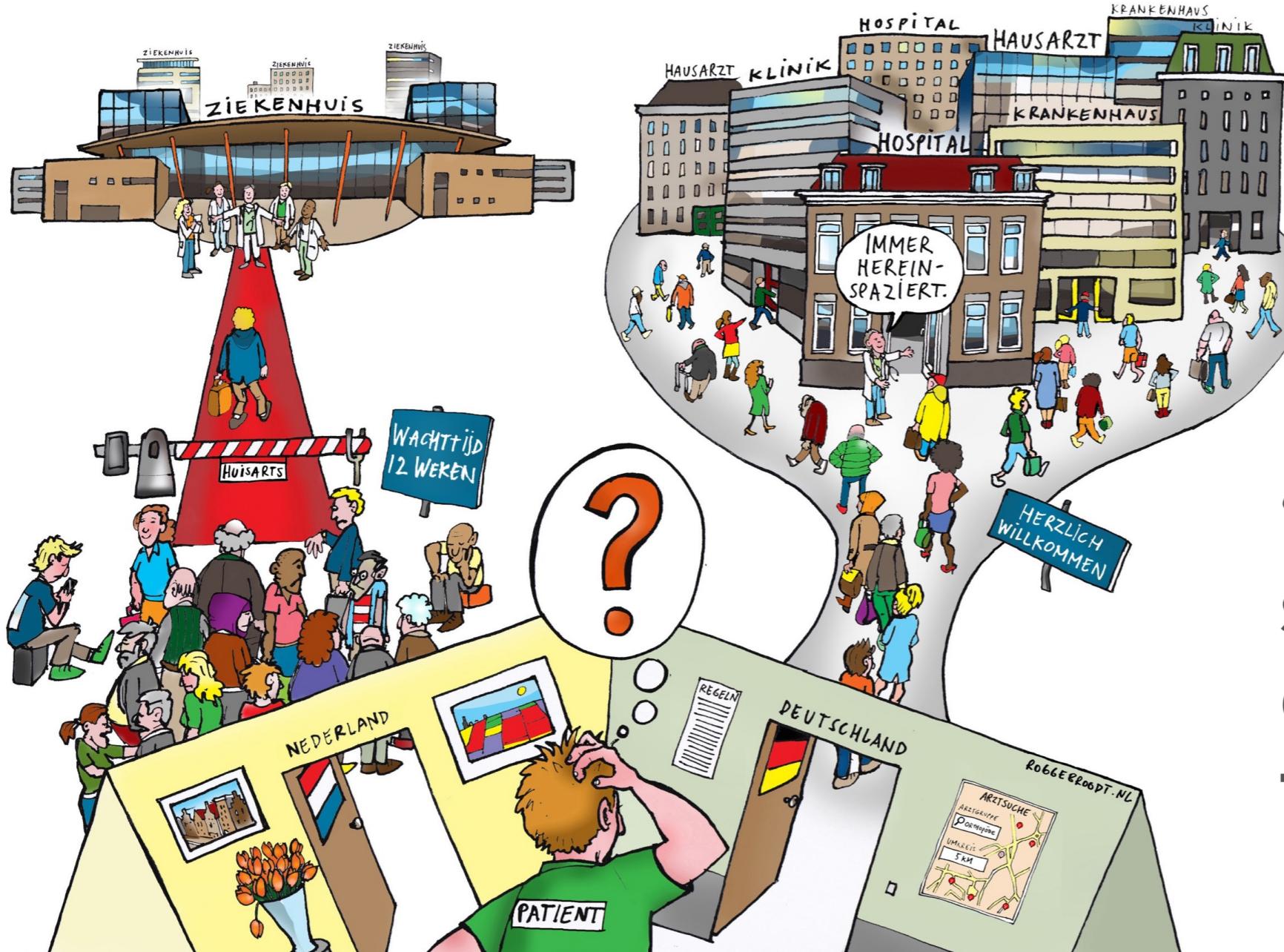
Antibiotic use in the Netherlands and Niedersachsen: the region



→ Thinking regionally much more important than nationally for local antibiotic resistance and infection prevention

ZO DICHTBIJ EN TOCH ZO ANDERS:
EEN KANS OM VAN ELKAAR TE LEREN

SO NAH UND DOCH SO ANDERS:
EINE CHANCE VONEINANDER ZU LERNEN



HEALTHiCARE
Innovations for
safer healthcare

**“So close and still
so different: a
chance to learn
from each other”**

eurhealth1health

INTERREG
Deutschland
Nederland



Europäische Union
Europese Unie

www.deutschland-nederland.eu

HET PROJECT WORDT IN HET KADER VAN HET INTERREG - PROGRAMMA DEUTSCHLAND - NEDERLAND
UITGEVOERD EN DOOR DE EUROPÉESE UNIE EN DE VOLGENDE INSTELLINGEN FINANCIËEL ONDERSTEUND .
DAS EURHEALTH-1HEALTH PROJECT WIRD IM RAHMEN DES INTERREG PROGRAMMS DEUTSCHLAND-NEDERLAND
DURCHGEFÜHRT UND DURCH DIE EUROPÄISCHE UNION SOWIE DIE FOLGENDEN INSTITUTIONEN FINANZIELL UNTERSTÜTZT .



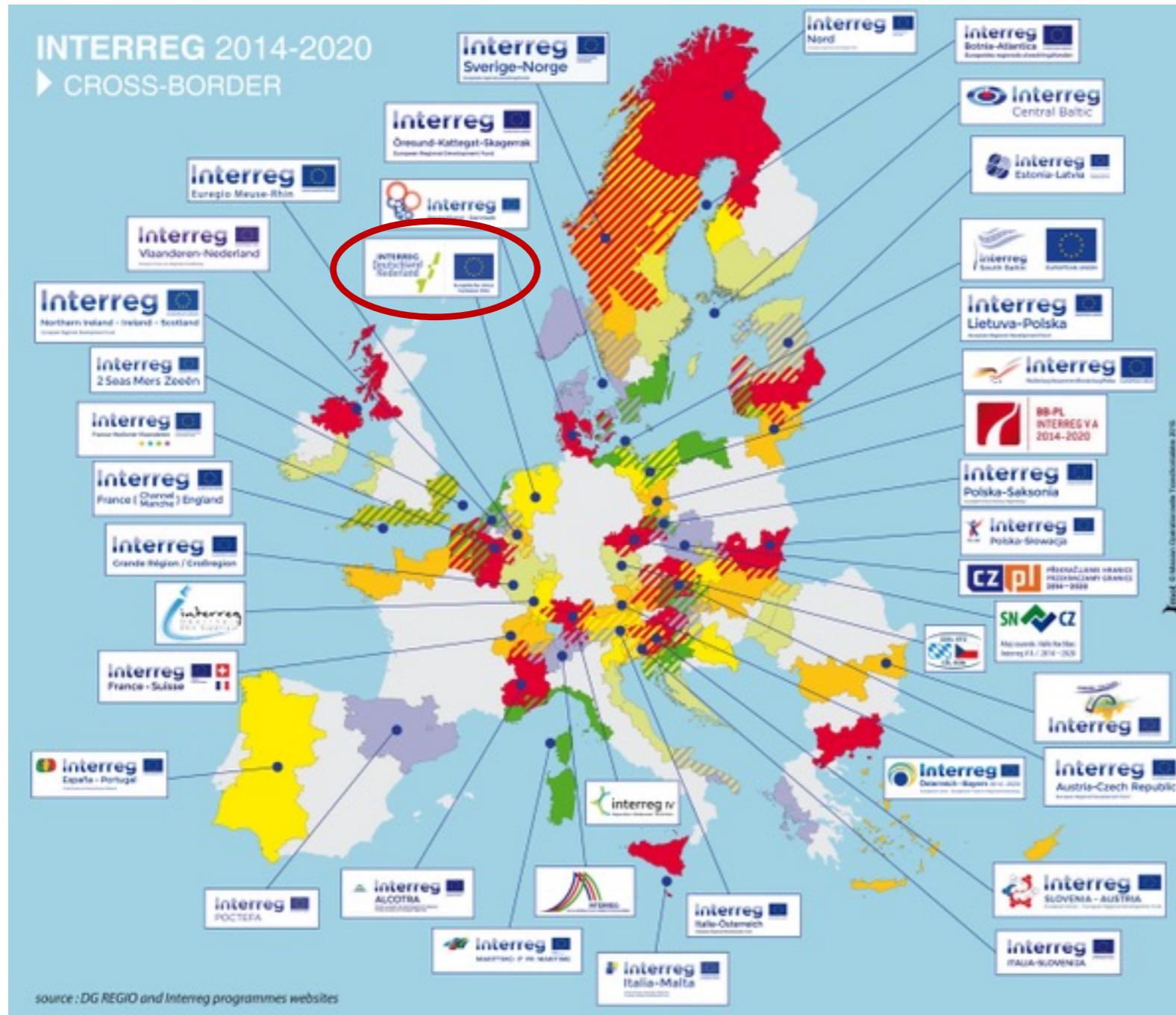
Ministerie van Volksgezondheid,
Welzijn en Sport



Niedersächsisches Ministerium
für Bundes- und Europaangelegenheiten
und Regionale Entwicklung

Ministerium für Wirtschaft, Innovation,
Digitalisierung und Energie
des Landes Nordrhein-Westfalen





Goal of INTERREG:
 to ensure that national borders are not an obstacle to a balanced development and integration of the European area!



The Dutch-German Cross-Border Region



Cross-border AMR projects

±50 Partner:

1. Science (\pm 6 universities)
2. Business (\pm 30 SMEs)
3. Health (\pm 14 hospitals & labs)

Goals:

- Education
- Interventions (Surveillance, Screenings)
- Competence
- Research
- Innovations

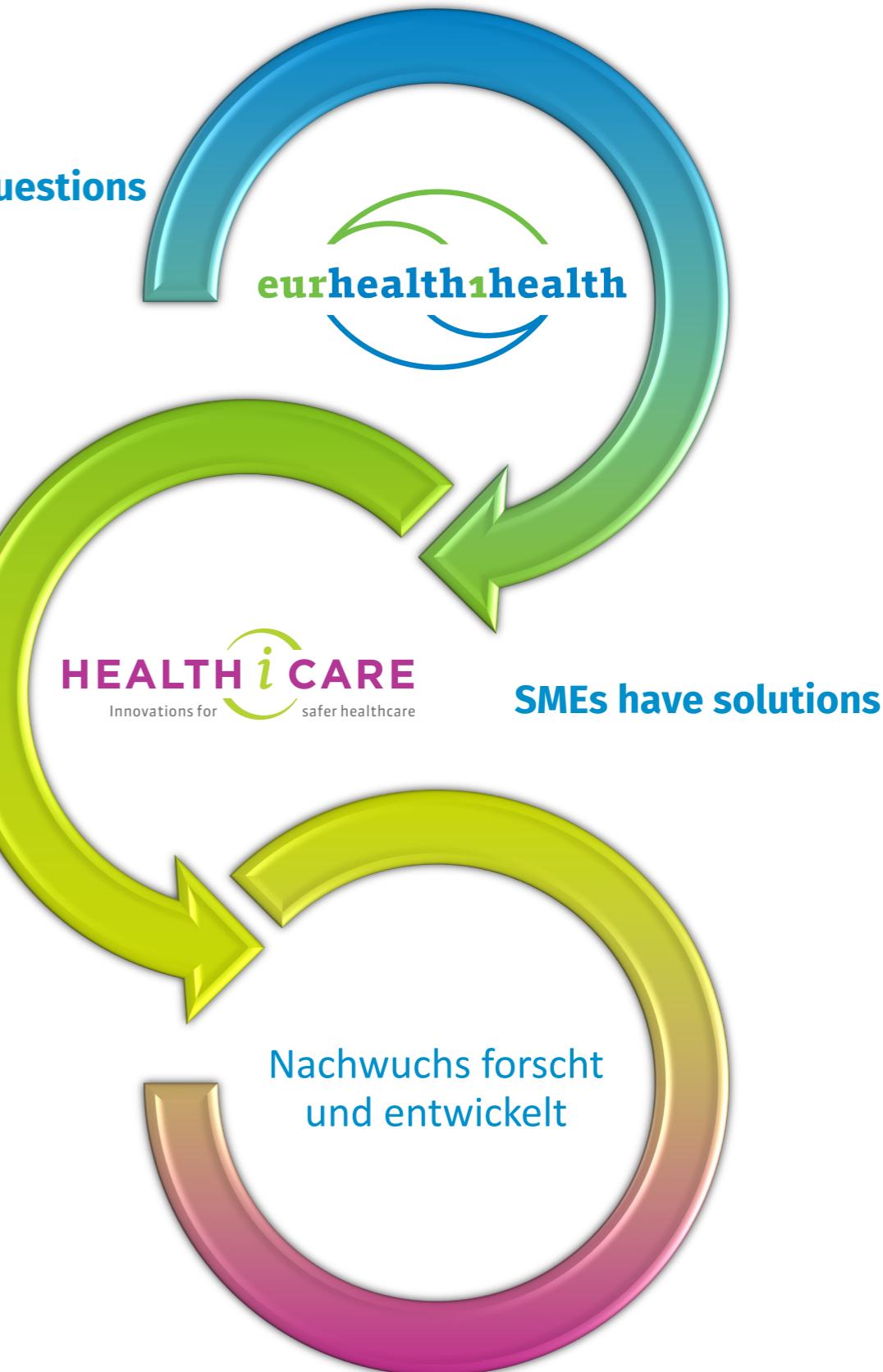
Experts have questions

eurhealth*1*health

SMEs have solutions

HEALTH*i*CARE
Innovations for safer healthcare

Nachwuchs forscht und entwickelt





The health-i-care film

HEALTH i CARE
Innovations for  safer healthcare



HEALTH-i-CARE

Innovations for safer healthcare

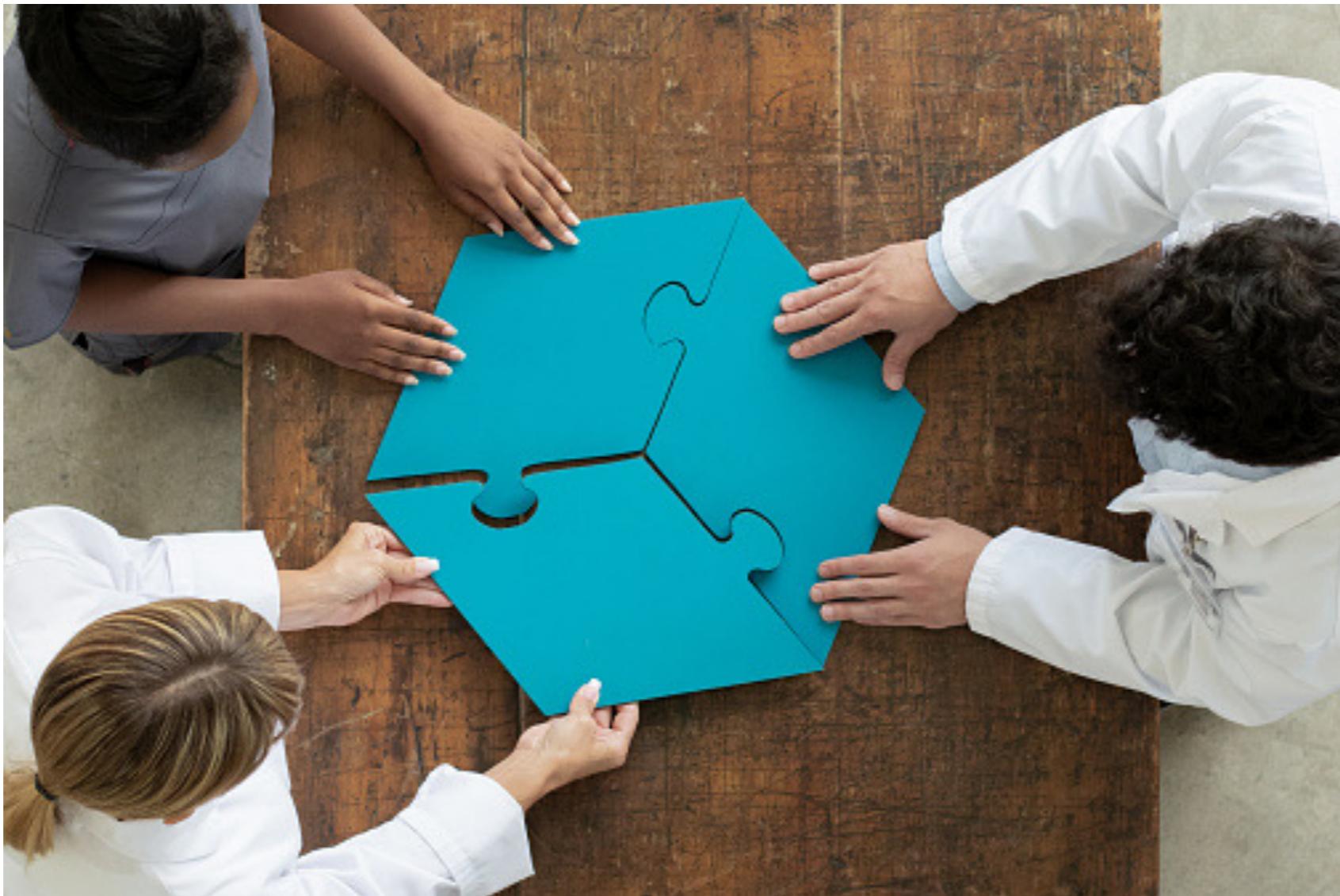


Partner in health-i-care





Science



Business

Health





health-i-care consortia

HEALTH i CARE
Innovations for
safer healthcare



**Science, Business AND Health
partners**



**Dutch AND German
partners**



Groningen

Velen

Nijmegen

Duisburg

De Lutte

NL

D

NL

D

NL

2016

2017

2017

2018

2018



Groningen

Velen

Nijmegen

Duisburg

De Lutte

NL

D

NL

D

NL

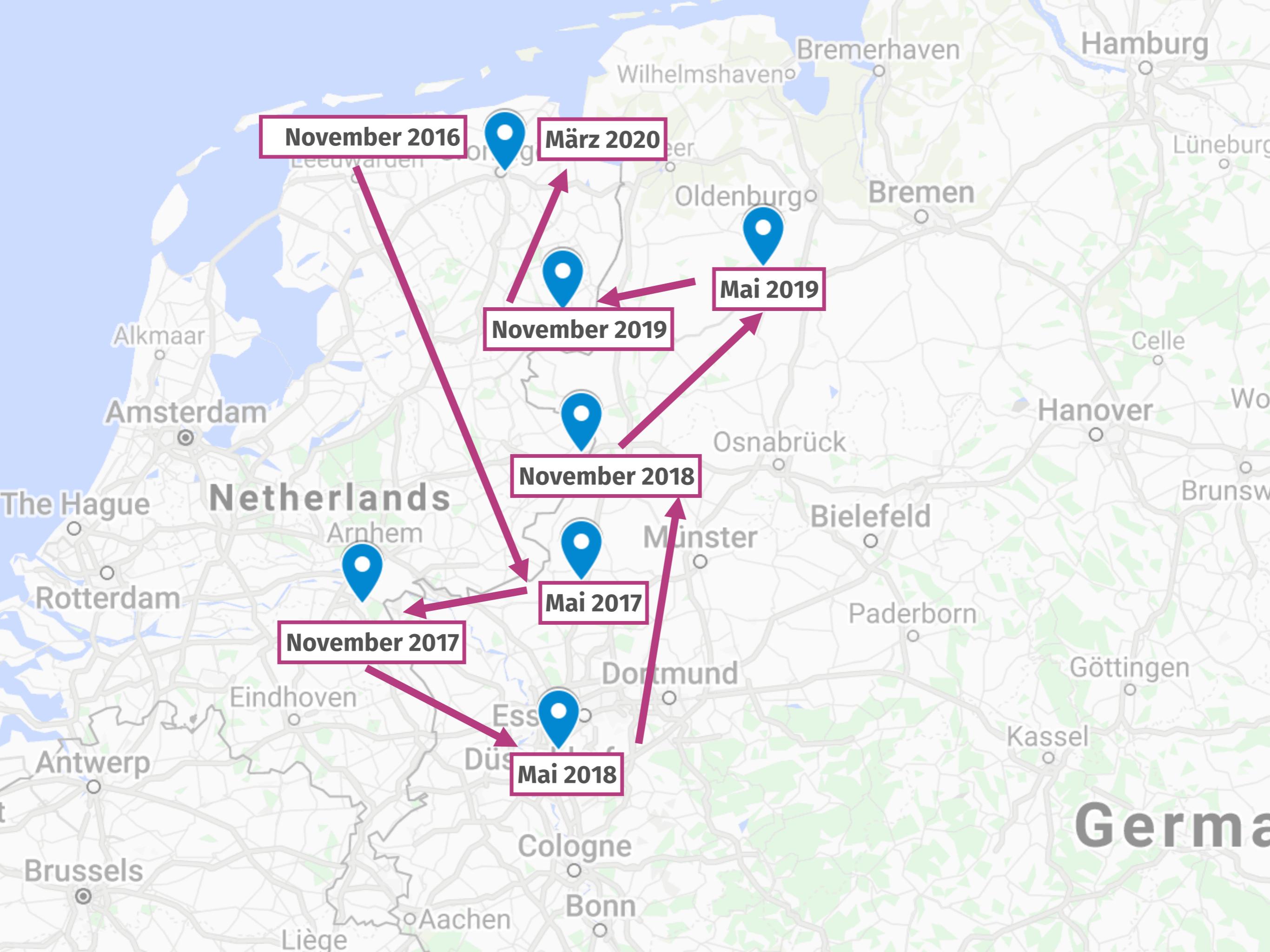
2016

2017

2017

2018

2018





MEDICA (2028 & 2019) & ECCMID (2019)



German-Dutch Chamber of Commerce (DNHK) @DNHK · 18 nov. 2019 ...

Kom van 18 t/m 21 november langs op de [@MEDICATradeFair](#). De DNHK is hier met health-i-care vertegenwoordigd met een stand op het Holland-Paviljoen. Aanwezige consortia zijn [@checkbuster](#), [#bananaa](#) en [@HycultBiotech](#).





EXAMPLES



Awareness & prophylaxis with and for children



Prophylactic reduction of the risk of hand-transmitted infections by improving hand hygiene →

1. Age-appropriate dispensing systems and interventions in primary schools (children)
2. Establishment of a hygiene monitoring system (OHMS) and promotional measures in nursing homes (older people)



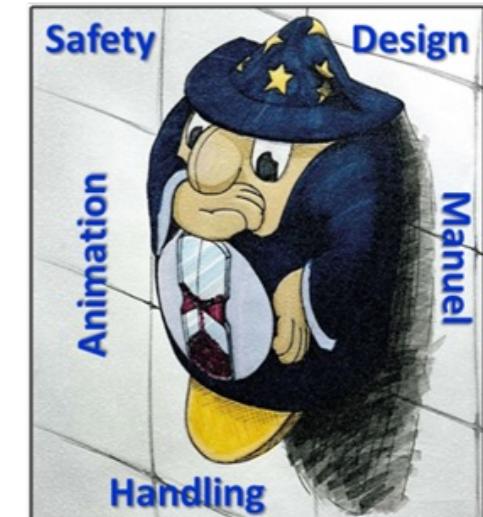
UNIVERSITEIT
TWENTE.





Awareness & prophylaxis with and for children

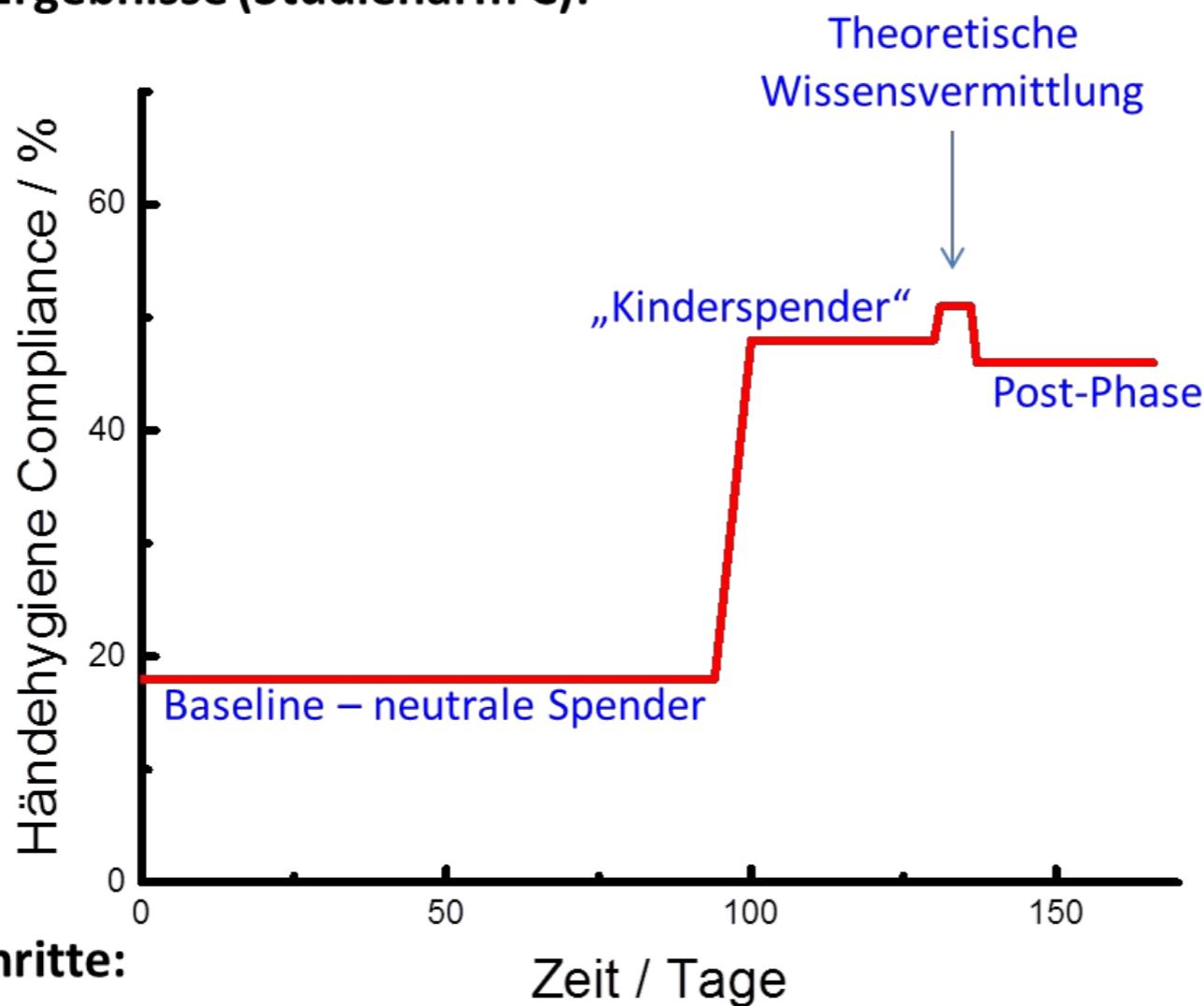
HEALTH i CARE
Innovations for safer healthcare





Awareness & prophylaxis with and for children

Vorläufige Ergebnisse (Studienarm C):



Weitere Schritte:

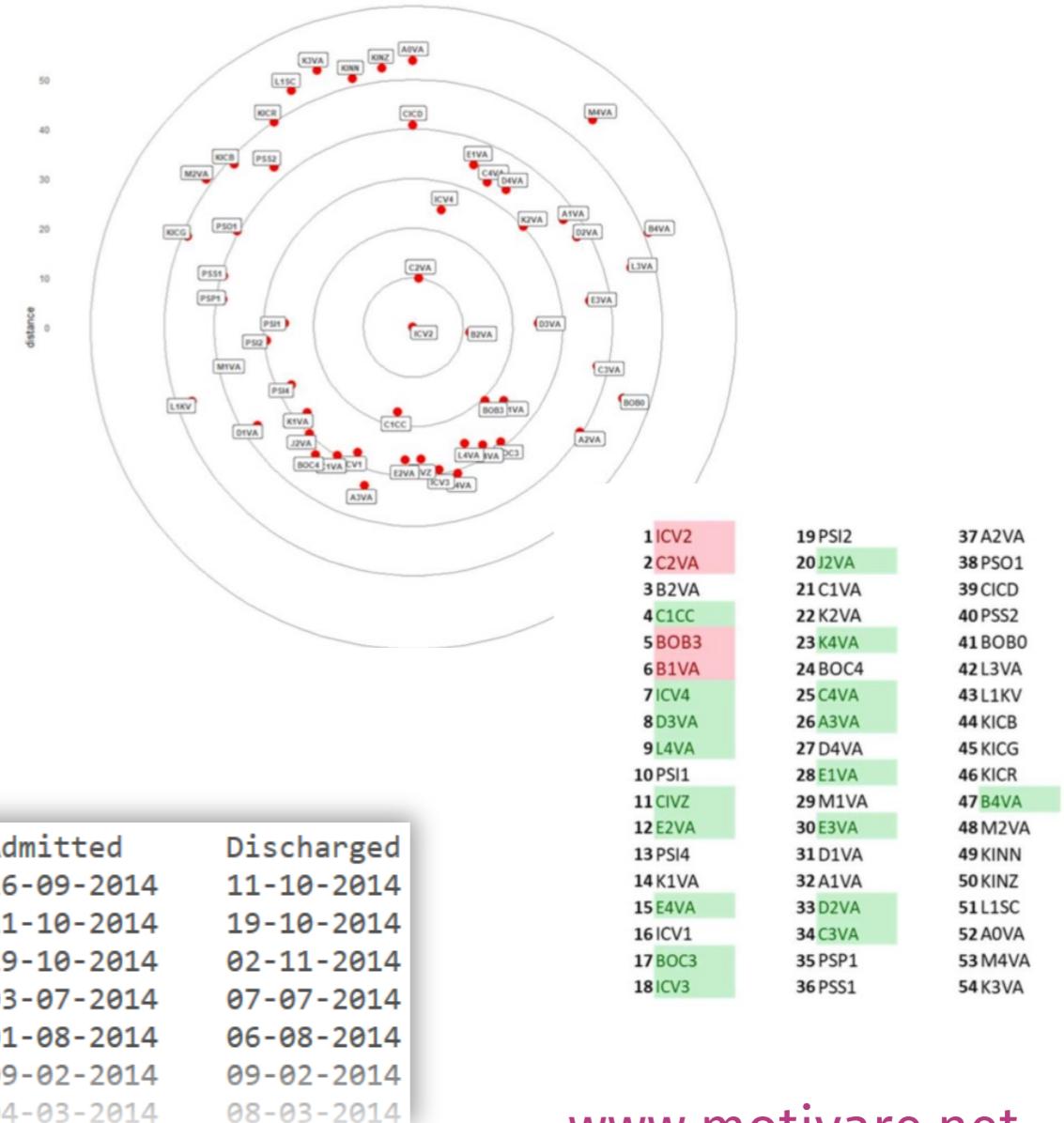
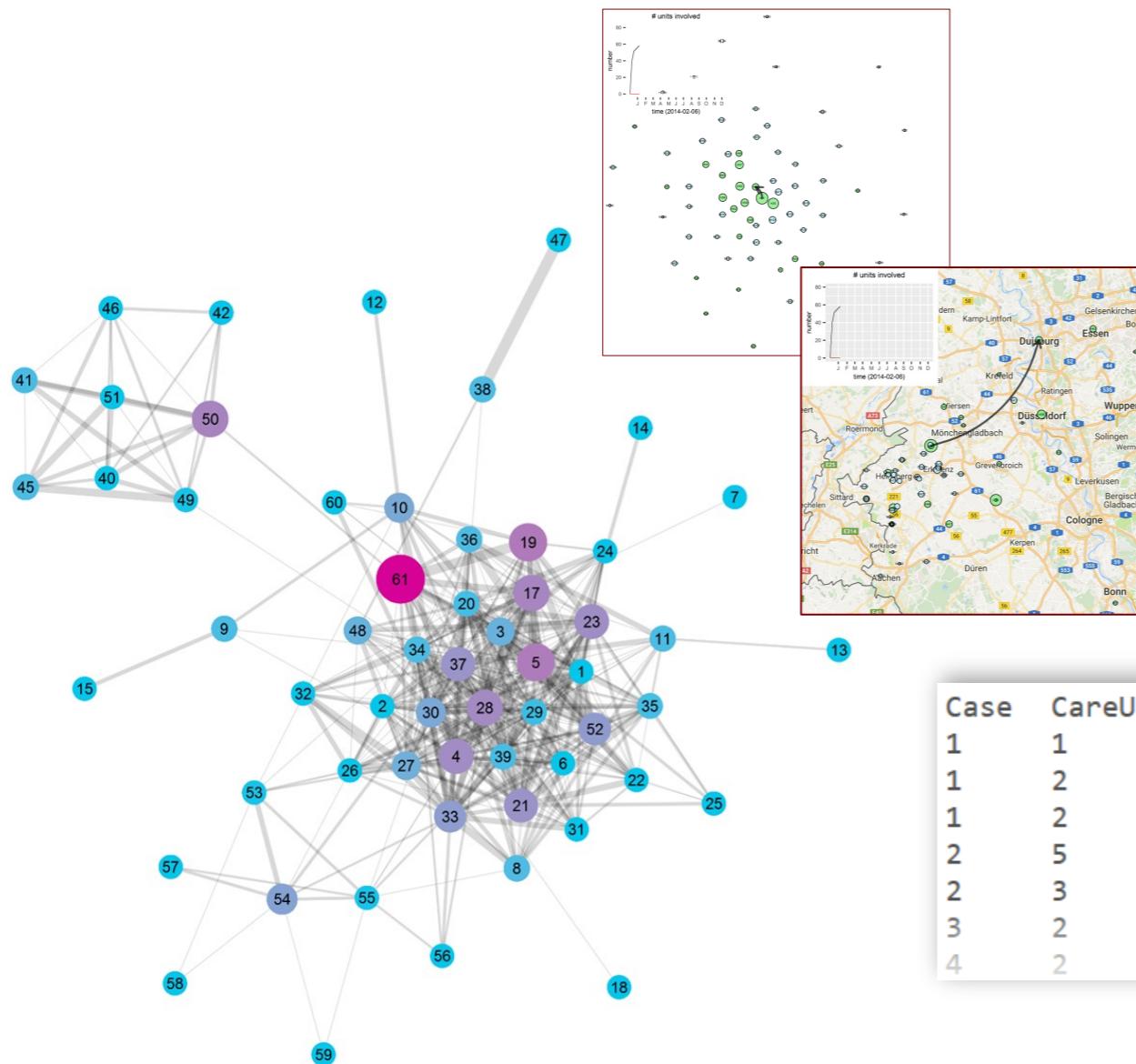
- Auswertung der Daten
- Optimierung, Anpassung und Marktreife des Spenders
- Ausweitung der Studien auf weitere Schulen und Schulformen





Hub-based outbreak control

Netwerk (hub) analyse



www.motivare.net



umcg



Niedersächsisches
Landesgesundheitsamt



ORTEC



Anne / Eva – the virtual assistant



Du

MET **ANNE** KUNT U

NIEUWS, ALBUM EN SPELLETJES

ANNE CARE

WWW.ANNE4CARE.NL



VIDEOBELLEN

Gemakkelijk beeldbellen met familie, vrienden of zorgprofessionals

Zo kunt u de diëtiste spreken en samen met de fysiotherapeut oefenen

(standaard inbegrepen)

[Lees meer >](#)



AGENDA

Anne herinnert u aan uw afspraken

(standaard inbegrepen)

[Lees meer >](#)



MEDICATIE

Anne herinnert u aan het innemen van uw medicatie

(standaard inbegrepen)

[Lees meer >](#)



SPRAAKHERKENNING

Anne luistert, reageert of helpt herinneren

(standaard inbegrepen)



SPELLETJES

Speel verschillende spelletjes met Anne

[Lees meer >](#)



ALBUM

Met Anne kunt u uw foto's en video's bekijken

[Lees meer >](#)



RADIO

Luister samen met Anne naar uw favoriete radiozender

[Lees meer >](#)



NIEUWS

Met Anne heeft u altijd het laatste nieuws



Landeszentrum Gesundheit
Nordrhein-Westfalen





Go Viral Go

HEALTH i CARE
Innovations for
safer healthcare

4All 🔍

- Resistentie tegen antibiotica // Antibiotika Resistenz
- Hooikoorts // Heuschnupfen
- Antibiotica gebruiken? // Antibiotika verwenden?
- Regels voor barbecueën // Regeln zum Grillen

DEU GER

read



Han de wasbeer 🔍

- Über Hannes der Waschbär
- About Ronnie Raccoon
- Over Han de Wasbeer

DEU GER

DEU GER

read

<https://www.goviralgo.nl>



CWZ een
santeon
ziekenhuis

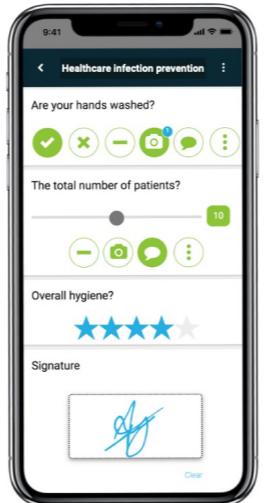
umcg



More digital solutions



CHECKBUSTER

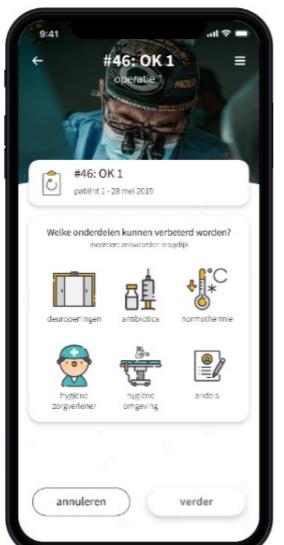


<https://checkbuster.com>



<https://hycultbiotech.com>

ellen



Ontdek hier onze
software



<https://ellensoftware.nl>

Bacter
Hygiene training



Hygiëne herkenning met
behulp van VR

<https://coolminds.nl/>

WAS IST HEALTH-I-CARE?

Health-i-care konzentriert sich auf die Entwicklung innovativer Produkte und Technologien zum Schutz der Bevölkerung vor Infektionen mit besonders resistenten Mikroorganismen und zur Vermeidung von Antibiotikaresistenzen.

[MEHR LESEN →](#)

**CROSS-BORDER INNOVATIONS EU PROJECT
GERMAN-DUTCH BORDER REGION
BUSINESS, HEALTH &
SCIENCE**

**FIGHTING TOGETHER FOR SAFER HEALTHCARE
AGAINST AMR, INFECTIONS &
ALL PATHOGENS (also SARS-CoV-2)!**





Das Projekt wird im Rahmen des INTERREG-Programms Deutschland-Nederland durchgeführt und finanziell unterstützt von:
Het project wordt in het kader van het INTERREG-programma Deutschland-Nederland uitgevoerd en financieel ondersteund door:



Ministerie van Economische Zaken
en Klimaat

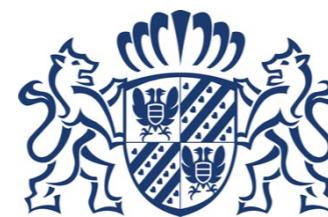


Niedersächsisches Ministerium
für Bundes- und Europaangelegenheiten
und Regionale Entwicklung

Ministerium für Wirtschaft, Innovation,
Digitalisierung und Energie
des Landes Nordrhein-Westfalen



provinsje fryslnâ^a
provincie fryslnâ^a

 provincie
groningen

 PROVINCIE FLEVOLAND

provincie Drenthe


provincie
Gelderland

provincie Overijssel

Provincie Noord-Brabant

WIJ WERKEN SAMEN. WIR ARBEITEN ZUSAMMEN.



Think out of the box
and across the border!



Thank you for your attention ☺