

EXAMPLES OF BEST PRACTICES TO

REDUCE ANTIBIOTIC RESISTANCE

WELCOME

18 NOV 2016



**BAPCOC**  
*Belgian Antibiotic Policy Coordination Committee*





**2016:**  
**A historical year in the fight against  
antibiotic resistance**

**Herman Goossens**  
**Chair BAPCOC**  
**Chair Technical Advisory Committee EAAD**



**2014**



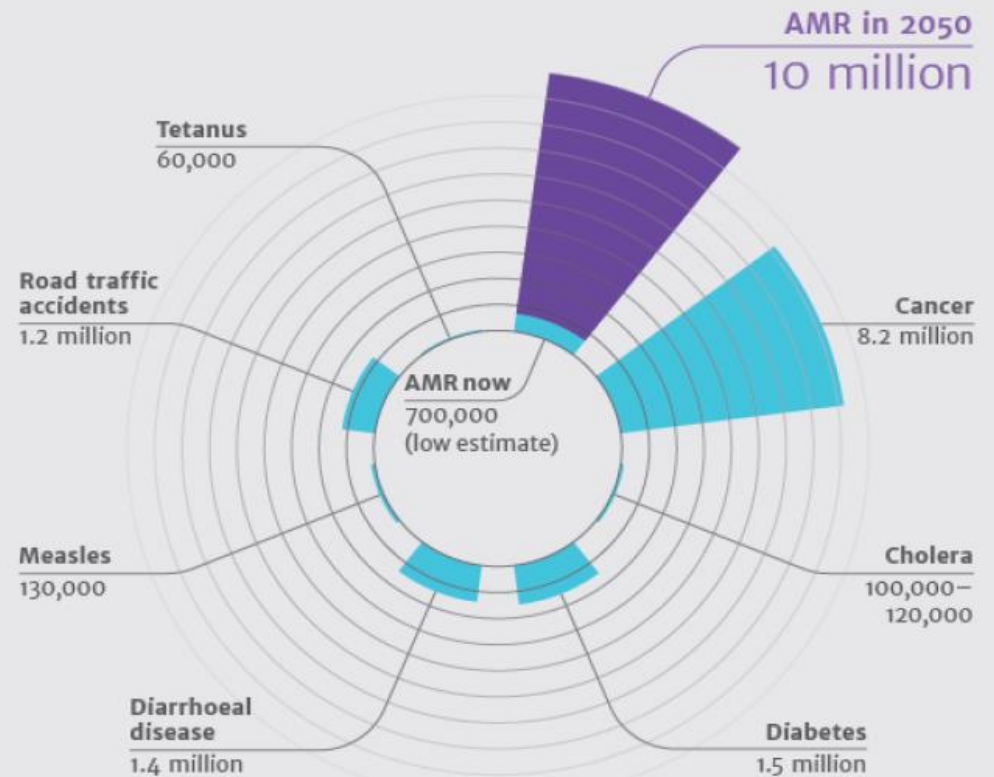
## Antimicrobial resistance a 'greater threat than cancer by 2050'

UK chancellor George Osborne to tell IMF that 10m people a year could die without radical action



The chancellor will call for incentives for pharmaceutical companies to develop new antibiotics. Photo: Ashi

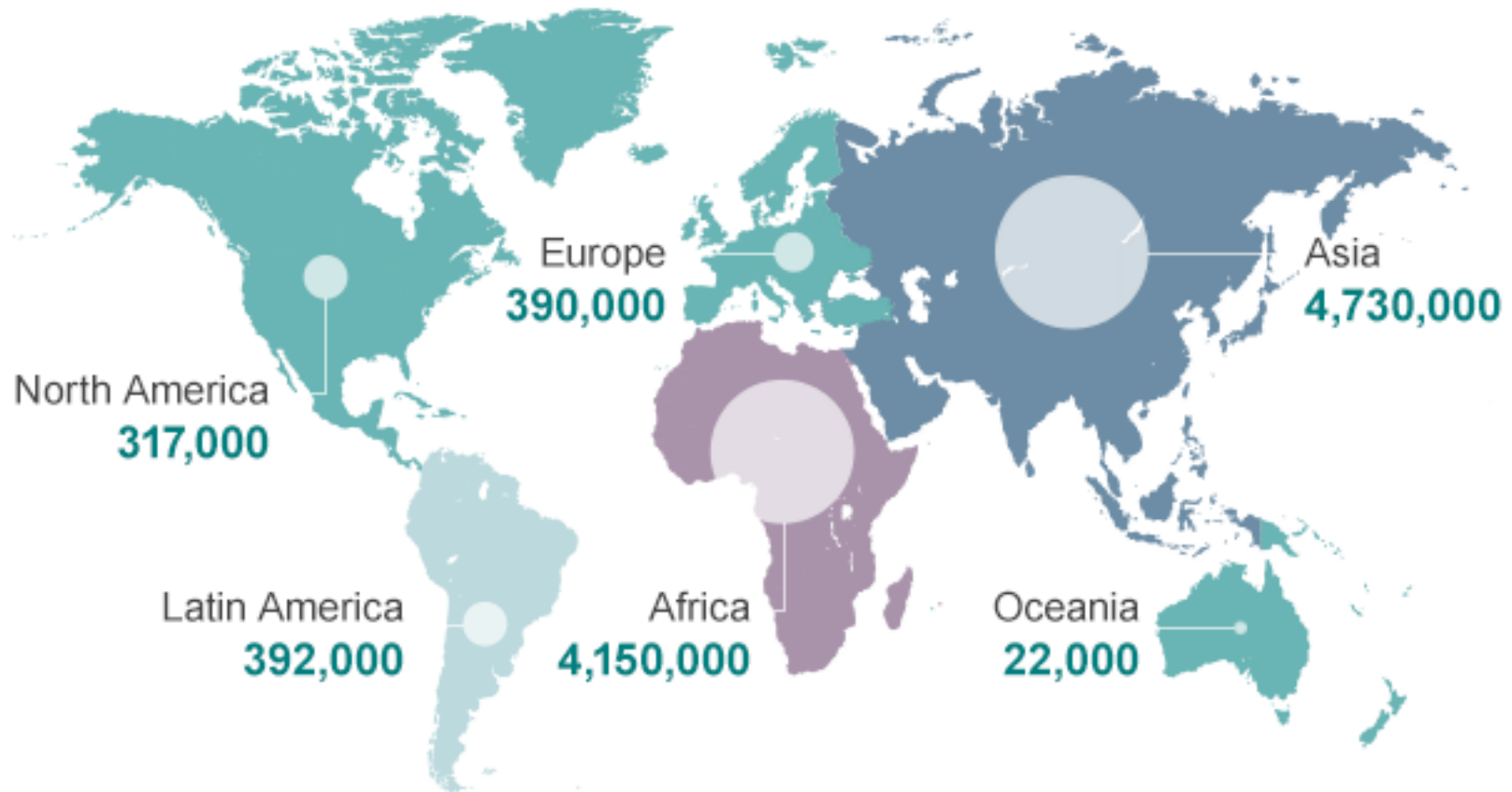
## Deaths attributable to AMR every year compared to other major causes of death





# Antimicrobial resistance is a major public health threat in LMIC

Deaths attributable to antimicrobial resistance every year by 2050



Source: Review on Antimicrobial Resistance 2014



# 2015



# Three World Leaders in a One Health Collaboration



Food and Agriculture  
Organization of the  
United Nations



World Health  
Organization

Global leader  
for food and  
agriculture

Global leader  
for animal  
health and  
welfare  
standards

Global leader  
for human  
health



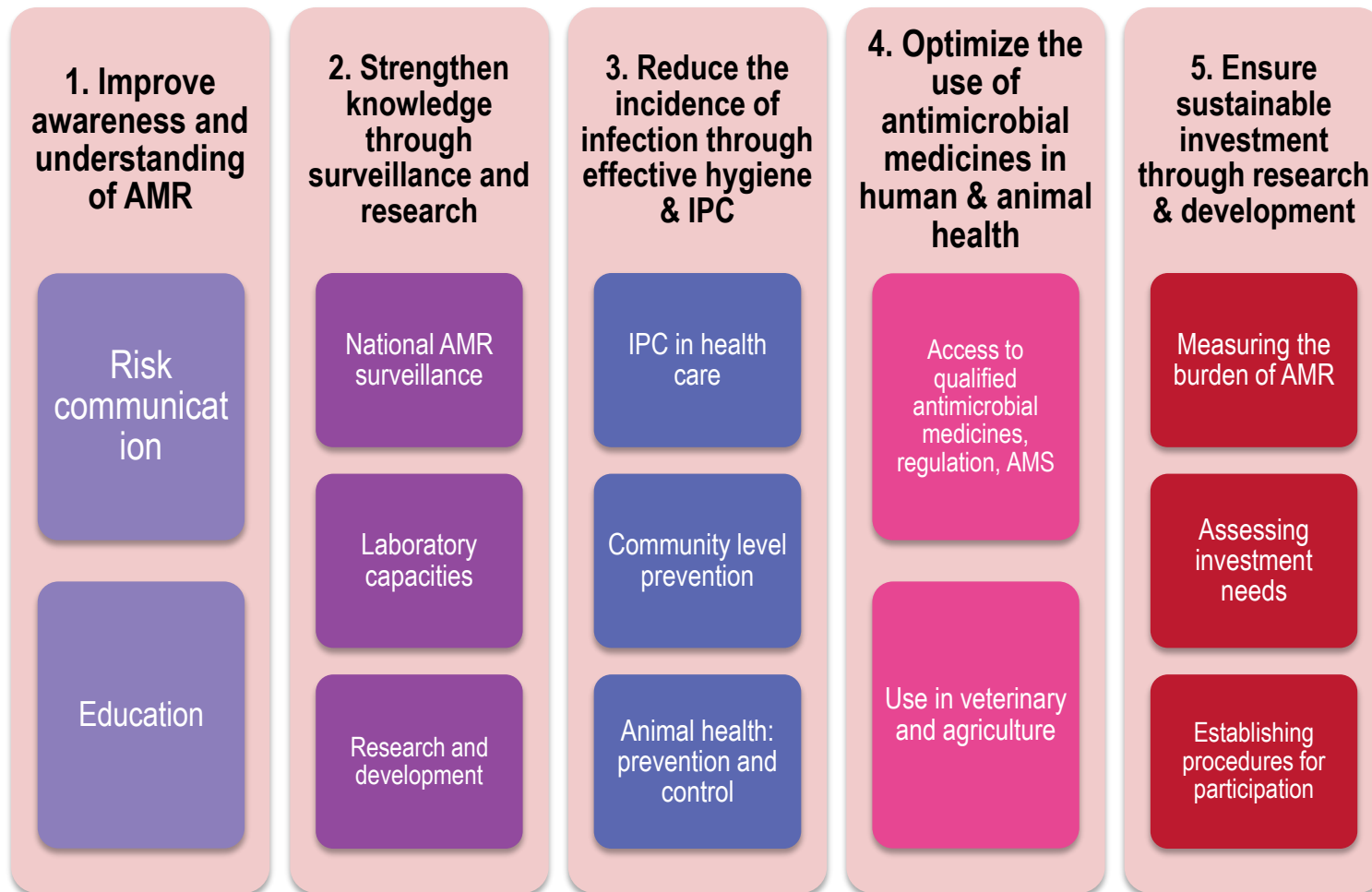
# 68th World Health Assembly (May 2015)

## Adoption of the Global Action Plan (GAP) on antimicrobial resistance





# Key areas in Global Action Plan and National Action Plans





# 83rd World Assembly of the OIE Delegates (May 2015)

## Adoption of the Resolution No. 26 on AMR

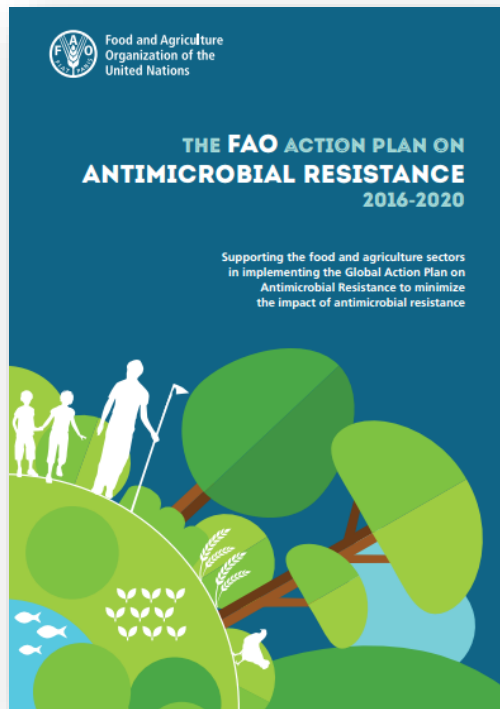




# The 39th Session of FAO's governing Conference (June 2015)



## Adoption of the Resolution 4/2015 on AMR





# 2016



**A year of intense awareness-raising among political leaders culminated on 21 September 2016 at the United Nations General Assembly high-level meeting on AMR.**





# **High-level meeting of the UN General Assembly on antimicrobial resistance**

**United Nations Headquarters in New York on 21 September 2016**

Unprecedented level of attention.

For the first time, Heads of State committed to taking a broad, coordinated approach to address the root causes of AMR across multiple sectors, especially human health, animal health and agriculture.

Recognized “One Health” approach as overarching principle for addressing AMR and emphasized that this requires coherent, comprehensive and integrated multi-sectoral action

Recognized that human, animal and environmental health are interconnected





# **Political Declaration of the high-level meeting of the UN General Assembly on antimicrobial resistance**

**21 September 2016, New York, USA**

- Countries reaffirmed their commitment to develop national action plans on AMR, based on the Global Action Plan on Antimicrobial Resistance developed in 2015 by the World Health Organization (WHO) in coordination with the Food and Agriculture Organization of the United Nations (FAO) and the World Organisation for Animal Health (OIE).
- UNGA called upon the Tripartite (and other intergovernmental organizations), to support the development and implementation of national action plans and antimicrobial resistance activities at the national, regional and global levels.
- Leaders at the UN meeting called on WHO, FAO and OIE, in collaboration with development banks such the World Bank other relevant stakeholders, to coordinate their planning and actions and to report back to the UN General Assembly in September 2018.



# 2016

**More, More, More,**



# **G20 Leaders' Communique**

**Hangzhou Summit, 4-5 September 2016**

“We affirm the need to explore in an inclusive manner to fight antimicrobial resistance by developing evidence-based ways to prevent and mitigate resistance, and unlock research and development into new and existing antimicrobials from a G20 value-added perspective, ....”



# G7 Health Ministers' Communique

Kobé Meeting, 11-12 September 2016



“we encourage governments to consider the need for establishing a global clinical studies network on drug resistance that provides access to a large clinical research infrastructure for the design, coordination and conducting of clinical trials and studies in cooperation with the existing global experts networks to ensure the common benefit of the outcomes”

Shiozaki et al. Lancet. 2016;388(10051):1262-3.



# Industry Roadmap for Progress on Combating Antimicrobial Resistance

**20 September 2016, New York**

“... we commit to:

Support the creation of open and sustainable clinical trial networks globally, with our expertise and experience. As proposed by the AMR Review, this would build on work started in Europe and US with the goal of improving the speed and efficiency of conducting clinical trials”



Most significant attention  
**ever** from senior global  
political leadership in **2016**



# 2017



# Two world leaders and AMR advocacies will have disappeared



**David Cameron calls for action on antibiotic resistance**

2 July 2014 Last updated at 02:14 BST

Prime Minister David Cameron has called for global action to tackle the growing threat of resistance to antibiotics.

UK lost global AMR leadership in 2016

## Obama battles 'superbugs' with national plan

By Sandee LaMotte, CNN

Updated 5:11 PM ET, Fri March 27, 2015



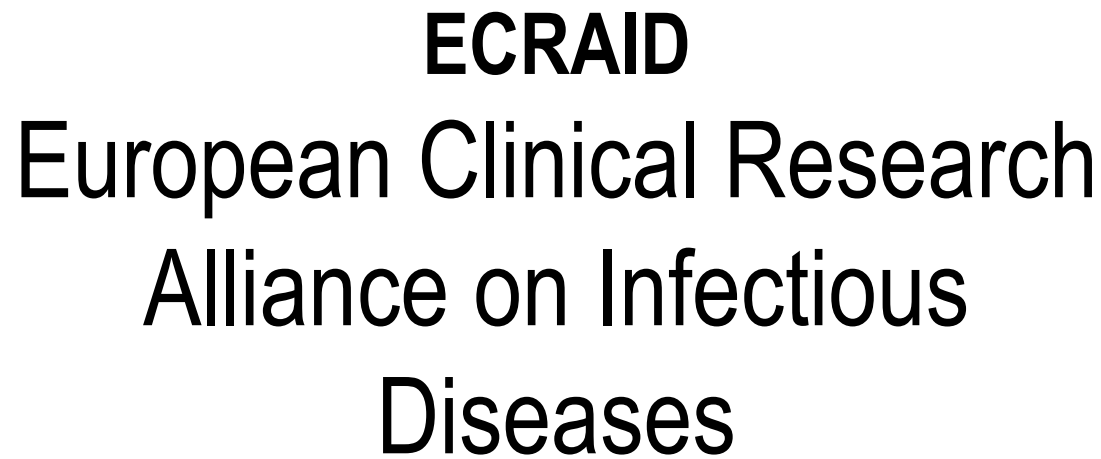
President Barack Obama announces a five-year plan to fight antibiotic-resistant bacteria.

Future role of US unclear



- The current tripartite arrangement among WHO, FAO and OIE offers promise but is unlikely to be sustainable given their other priorities.
- We need a new High-Level Coordinating Mechanism (HLCM).
- The HLCM should consist of WHO, FAO, OIE, the World Bank, relevant UN agencies and other international organizations, major multisectoral stakeholders, and global experts
- We need an organization leading this HLCM (Wellcome?)
- We need a G20 country taking forward the G20 recommendations (Germany?)



The logo graphic consists of a large, rounded rectangular frame. The left vertical bar is orange, and the right vertical bar is dark red. The top and bottom horizontal bars are split: the left half is orange and the right half is dark red.

# **ECRAID**

## European Clinical Research Alliance on Infectious Diseases



# Our purpose and vision

Our purpose is to reduce the impact of infectious diseases on individual and population health.

*Our vision is to efficiently generate rigorous evidence for new or improved diagnosis, prevention and treatment of infections and to better respond to infectious disease threats. This is facilitated by a European multidisciplinary clinical research network and innovative research approaches.*



# Focus on AMR and EID

## Antimicrobial resistance

- Fast completion of clinical studies;
- Largest need in bacterial infections (antibiotic resistance)



## Emerging Infectious Diseases

- Rapid initiation and completion of clinical studies;
  - Mostly virus infections



Need for operational high quality large-scale clinical research infrastructure with European coverage

Similar non-scientific barriers

Overlapping stakeholders



# ECRAID Core Group

## Coordination Team



**Herman Goossens**

University Antwerp  
Coordinator PREPARE



**Marc Bonten**

UMC Utrecht  
Coordinator COMBACTE



**Frank Deege**

Consulting



**Chantal van Litsenburg**

Consulting

## Working Group



**Christopher Butler**

University of Oxford



**Oliver Cornely**

University Hospital  
Cologne



**Bruno François**

University Medical  
Center Limoges



**Stephan Harbarth**

University Hospital  
Geneva



**Peter Horby**

University of Oxford



**Menno de Jong**

Academic Medical  
Center



**Jesús Rodríguez Baño**

University of Sevilla

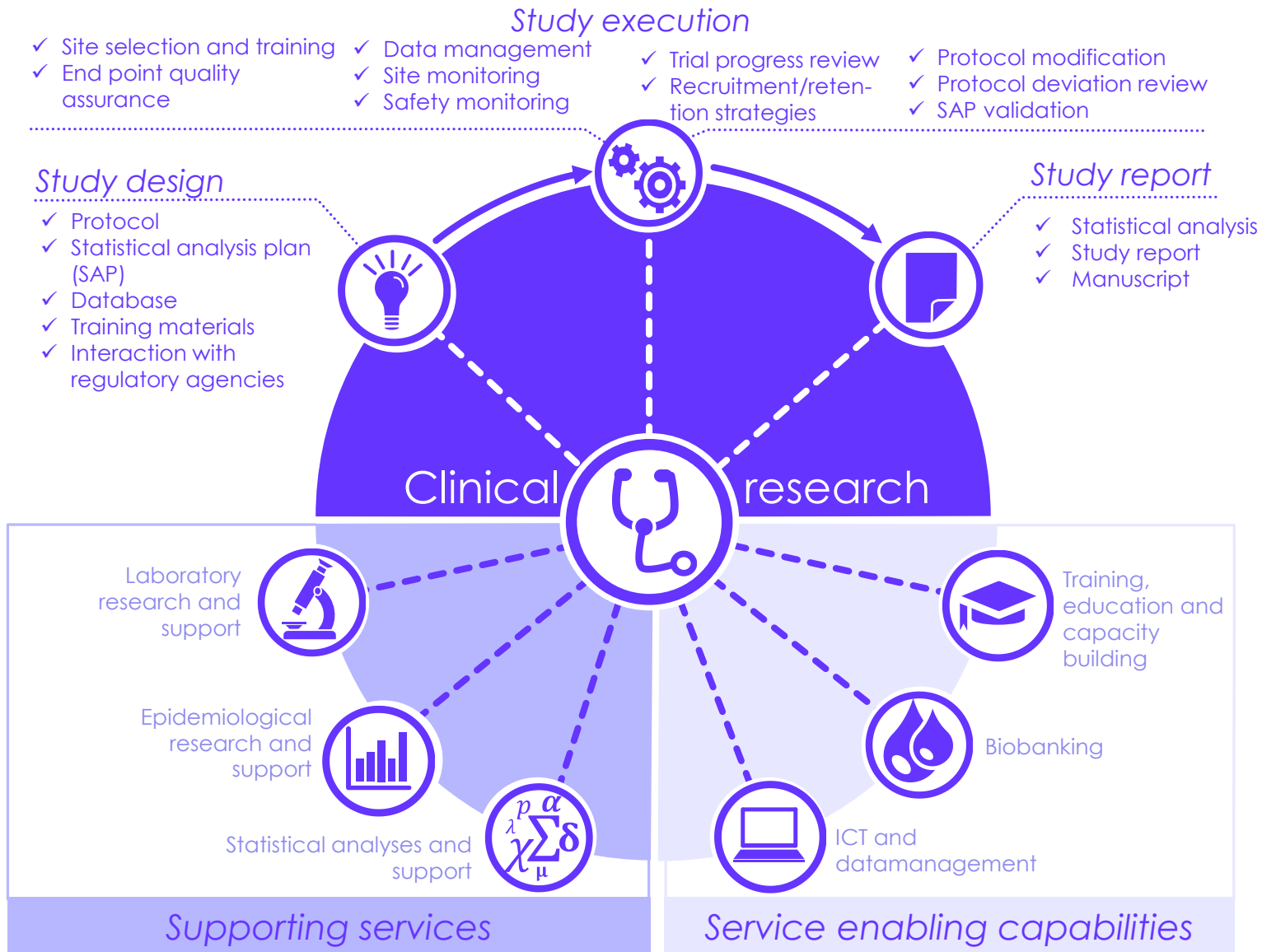


**Evelina Tacconelli**

University of Tuebingen



# Our services





# Clinical research



**Phases:** Phase I - IV

**Scope:** Prospective and retrospective

**Source:** industry-driven and investigator driven

**Pathogens:** viruses, bacteria, protozoa

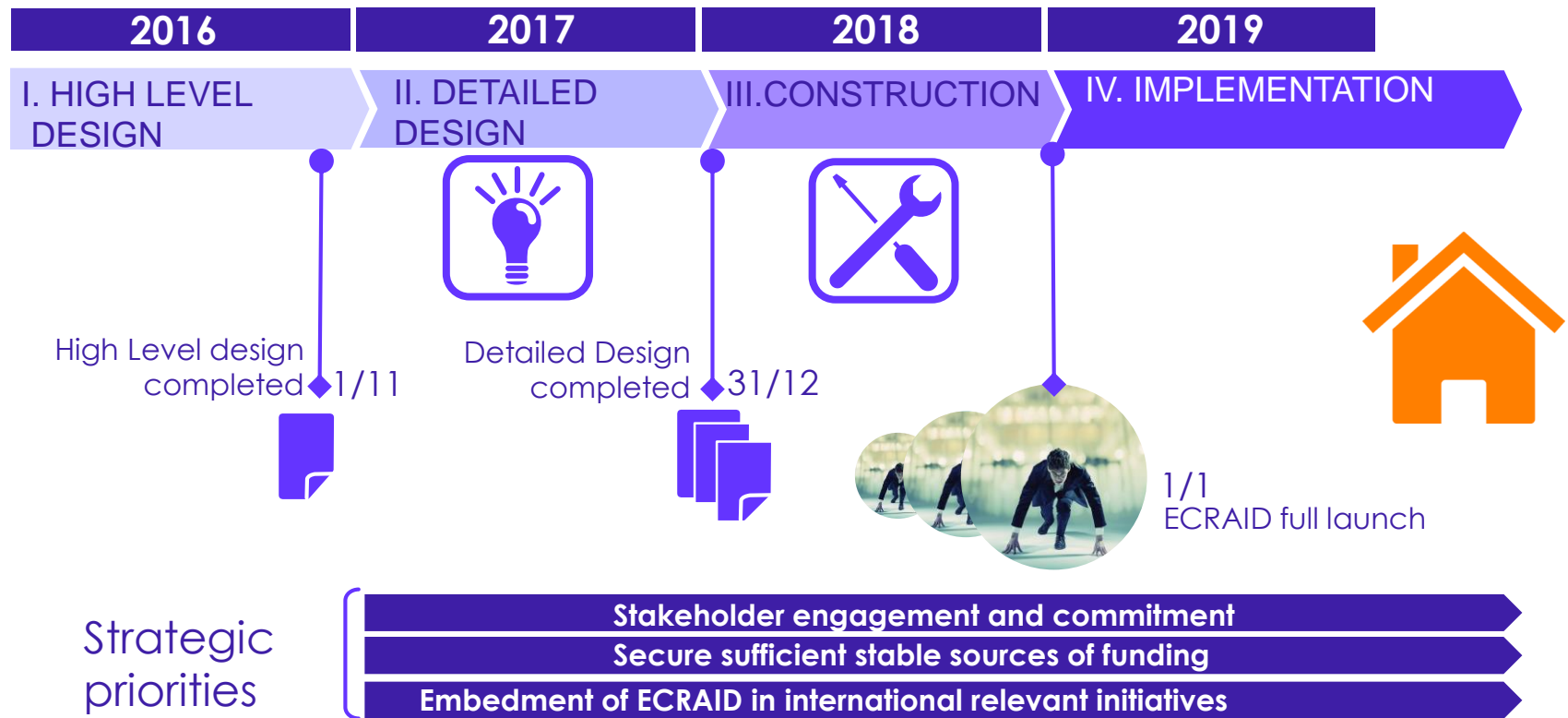
**Interventions:** vaccines, diagnostics, therapeutics, medical devices, routine care, etc.

**Objectives:** Prevention, treatment, diagnosis, screening, quality of life, health economic evaluation, epidemiological, etc.

**Types:** randomized controlled trials, observational (analytical and descriptive), database, perpetual, platform trials, etc.



# High-level Roadmap





## NEWS

# 'European Antibiotics Awareness Day' wins 'European Health Award 2016' accolade

**Eurosurveillance editorial team** <sup>1</sup>

1. European Centre for Disease Prevention and Control (ECDC), Stockholm, Sweden

**Correspondence:** Eurosurveillance editorial team ([eurosurveillance@ecdc.europa.eu](mailto:eurosurveillance@ecdc.europa.eu))

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**Citation style for this article:**

Eurosurveillance editorial team. 'European Antibiotics Awareness Day' wins 'European Health Award 2016' accolade. *Euro Surveill.* 2016;21(39):pii=. DOI: <http://dx.doi.org/30354>

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Article published on 29 September 2016





# WORLD ANTIBIOTIC AWARENESS WEEK

**14-20 NOVEMBER 2016**



# Examples of 2016 Activities

- **Conversations:**

- On Friday, 18 Nov: Join the [24-hour Global Twitter Chat](#) hosted by ECDC, WHO HQ, WHO Europe, and CDC

- **Sign up & Pledge:**

- Sign [FAO's and WHO WPRO's AMR Pledge](#) ("I Use Antibiotics Responsibly");
- Become an [Antibiotic Guardian](#)! (Public Health England / WHO Euro / ECDC)

- **Events:**

- On Monday, 14 Nov: [Teleclass](#) on new WHO recommendations to fight antimicrobial resistance; [Livestream](#) of FAO's "Antibiotics and You" awareness raising get together
- On Tuesday, 15 Nov: [CDC's webinar](#) on the "Core Elements of Outpatient Antibiotic Stewardship"; [Facebook Live event](#) hosted by Global Moms Challenge and Every Woman Every Child
- On Wednesday, 16 Nov: WHO-UN's World Antibiotic Awareness Week event: ["Advocating for Appropriate Antibiotic Use."](#)
- On Friday, 18 Nov: [Livestream](#) of EU-level launch event in Brussels



[WWW.GEBRUIKANTIBIOTICACORRECT.BE](http://WWW.GEBRUIKANTIBIOTICACORRECT.BE)

# ANTIBIOTICA

## GEBRUIK ZE GOED EN ENKEL ALS HET MOET!



Een Europees gezondheidsinitiatief 

**BAPCOC**  
*Belgian Antibiotic Policy Coordination Committee*





BAPCOC

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ANTIBIOTIQUE ?](#)

[UTILISEZ-LES  
COMME IL FAUT](#)

[UNIQUEMENT  
QUAND IL FAUT](#)

[LES RISQUES](#)

[PARLEZ-EN](#)

[LIENS UTILES](#)

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ENFANTS](#)

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# LES ANTIBIOTIQUES

**PRENEZ-LES COMME IL FAUT  
ET UNIQUEMENT QUAND IL LE FAUT !**



Une mauvaise utilisation des antibiotiques rend les bactéries plus résistantes. Par conséquent, les maladies graves ne peuvent plus être traitées correctement. Veillez donc à ce que les antibiotiques agissent encore lorsque vous en aurez réellement besoin

**PRENEZ-VOUS  
LES ANTIBIOTIQUES  
COMME IL FAUT ?**

TESTEZ VOS CONNAISSANCES,  
GAGNEZ EN SANTE  
ET RECEVEZ UNE BD



**DEMARREZ LE TEST [ICI](#)**



DÉFIEZ UN(E) AMI(E)!



[www.usagecorrectantibiotiques.be/fr](http://www.usagecorrectantibiotiques.be/fr)

**LISEZ "TANTE BIOTIQUE" EN  
LIGNE**



**PARLEZ-EN À VOTRE MÉDECIN OU  
VOTRE PHARMACIEN**



**ÉCOUTEZ LES SPOTS  
RADIO**





VERMIJD  
ANTIBIOTICARESISTENTIE !  
...OOK BIJ DIEREN



[www.amcra.be](http://www.amcra.be)

**BAPCOC**  
Belgian Antibiotic Policy Coordination Committee



0:30 / 0:31





WORD OOK EEN ANTIBIOTIC GUARDIAN  
KIES JOUW BELOFTE NU!

IK BEN EEN

ZORGVERLENER OF  
LEIDINGGEVENDE IN  
DE  
GEZONDHEIDSZORG

*Kies uit onderstaande lijst*

LID VAN DE  
BEVOLKING

*Kies uit onderstaande lijst*

STUDENTEN OF  
OPLEIDER

*Kies uit onderstaande lijst*



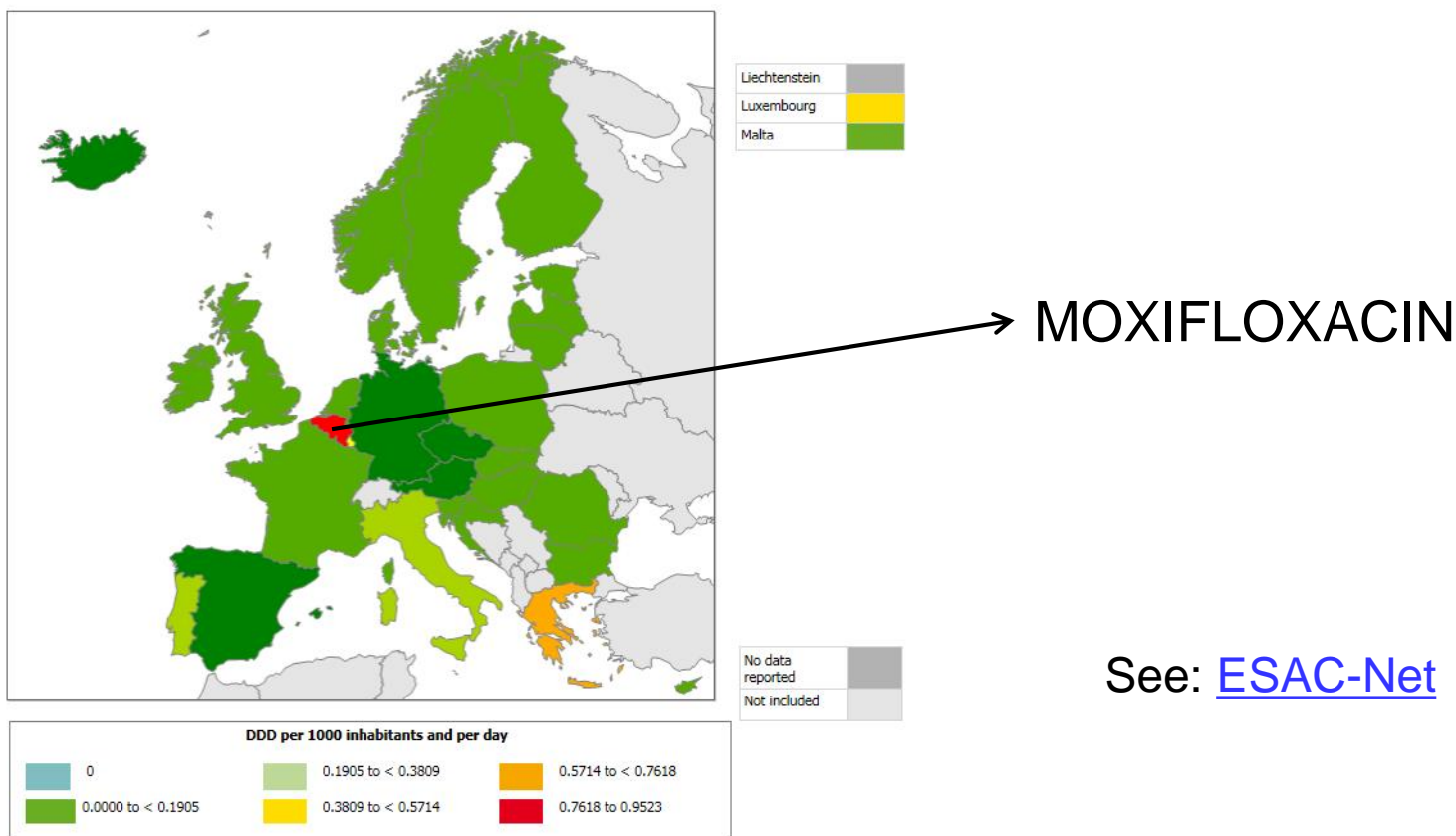
# BAPCOC National Action Plan 2014-2019

## Achievements in 2016

- One health approach: integrated programmes and datasets on antimicrobial utilisation and resistance
  - Geïntegreerde antibioticagids ambulante en ziekenhuissector. Online beschikbaar tegen 2018.
  - Project multi-resistentie door het mobile gen cfr-MUMOC
  - Prevalentie van colistin resistentie en plasmid-located mcr gene(s) bij enterobacteria van dier, mens en omgeving
- Targets for outpatients, inpatient and veterinary antibiotic use
  - Campagne sensibilisatie voor verantwoord antibioticagebruik bij dier en mens
  - E-learning module: preventie en behandeling van CA-UTI
  - Overleg FOD/RIZIV/BAPCOC targets ambulante praktijk (Hoofdstuk IV, Accreditatie, aflevering pillen i.p.v. verpakkingen...)



## Geographical distribution of the consumption of Third-Generation Quinolones (ATC group J01M) in the community and hospital sector in Europe, reporting year 2014





# BAPCOC National Action Plan 2014-2019

## Achievements in 2016

- Quality measures/Audits
  - Audit antibioticaprophylaxe in de chirurgie (eind 2016)
  - ECDC en Global-PPS - doel: elk ZH zal aan één van de twee protocollen deelnemen in 2017
- Education and Training
  - Cours interuniversitaire gestion de l'antibiothérapie UCL/ULB/ULG
- Engage with stakeholders
  - PAQs en VIP<sup>2</sup>
- Develop methods to monitor effects of antimicrobial stewardship strategies, policy and guidance interventions across the healthcare economy
  - UWI subgroep: UWI surveillance in ziekenhuizen begin 2017



# Budget 2016 (18 November 2016)

- Sensibilisatiecampagne ter promotie van het verantwoord antibioticagebruik – winter 2016-2017 [RIZIV : 400.000€]
- Campagne handhygiëne [ BFM B4: 125.000€]
- Financiering antibiotherapiebeleidsgroepen [BFM B5: 4.346.371€]
- Financiering ziekenhuishygiëne [BFM B4]:
  - verpleegkundigen: 9.748.327€
  - artsen: 6.968.890€
- Financiering regionale platformen [BFM B4: 22.310€]
- Financiering Noso-info [BFM B4: 35.000€]
- Studie PPS MDRO in WZC [RIZIV art 56: 125.135€]
- Updaten guidelines ziekenhuisgeneeskunde BVIKM [RIZIV art 56: 50.000€]
- Sensibilisatiecampagne AMCRA [RIZIV art 56: 38.600€]



# Message of the 7th campaign

All together, we can prevent infections!





# Reflections of past year's initiatives and activities

- Very dedicated chairs and members of the BAPCOC working groups: THANK YOU!
- Very dedicated FOD staff: THANK YOU!
- Good financial support
- Lot's of frustrations
- Many problems and obstacles:
  - Burocratic country and regions
  - Lack of accountability
  - Rules, rules, rules
  - Structures, structures, structures
- But we will not give up.



# Thank you

[www.antibioticguardian.com/dutch](http://www.antibioticguardian.com/dutch) - [www.antibioticguardian.com/french](http://www.antibioticguardian.com/french)