



# EU COMBACTE Consortium: Combating bacteria multi-resistance in Europe in a public-private partnership

RON DE WINTER

19 NOVEMBER 2016

XXXVII. TÜRK MİKROBİYOLOJİ KONGRESİ



innovative  
medicines  
initiative



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UMC Utrecht

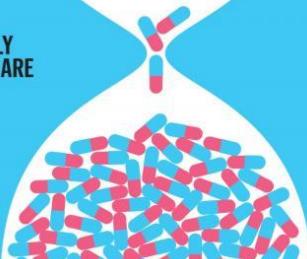
# Newsweek

OCTOBER 18, 2013

## THE DRUGS DON'T WORK

MORE AND MORE DEADLY PATHOGENS ARE BECOMING INCURABLE

by Kurt Eichenwald



Antibiotics resistance 'as big a risk as terrorism' – UK medical chief

La résistance des bactéries aux antibiotiques a atteint une dimension planétaire.

## Antibiotic-resistant infections spread through Europe

Antibiotic resistance: we must act now, says WHO

Do recoveries die, or are they killed?  
Pinstriped greens take on Big Oil  
Boss of the UN: worst job in the world  
Win or lose, dark days for Cameron  
How gangs suck El Salvador dry

The Economist

MAY 25/27 - 27TH 2016

## When the drugs don't work The rise of antibiotic resistance



Superbug that moves faster than science

## BAD BUGS, NO DRUGS

As Antibiotic Discovery Stagnates ...  
A Public Health Crisis Brews



“Three million Europeans catch infections in hospital annually”

STRONGER, SMARTER, SEXIER YOU? WE EVALUATE ANTI-AGING PRODUCT CLAIMS | NEW REFRIGERATORS THAT KEEP YOUR FOOD FRESH LONGER

## ConsumerReports

HOW TO STOP A

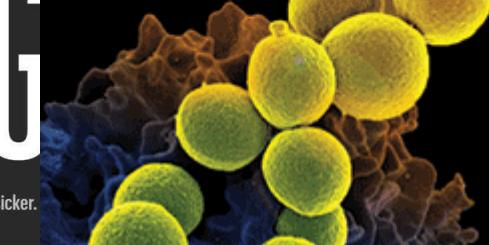
# SUPERBUG

more and more antibiotics no longer work, and dangerous bugs are making us sicker.  
What can we do about it before it's too late?

Rethinking Humanities • Emerging Vietnam • An Indian Reformer  
**HARVARD** MAGAZINE

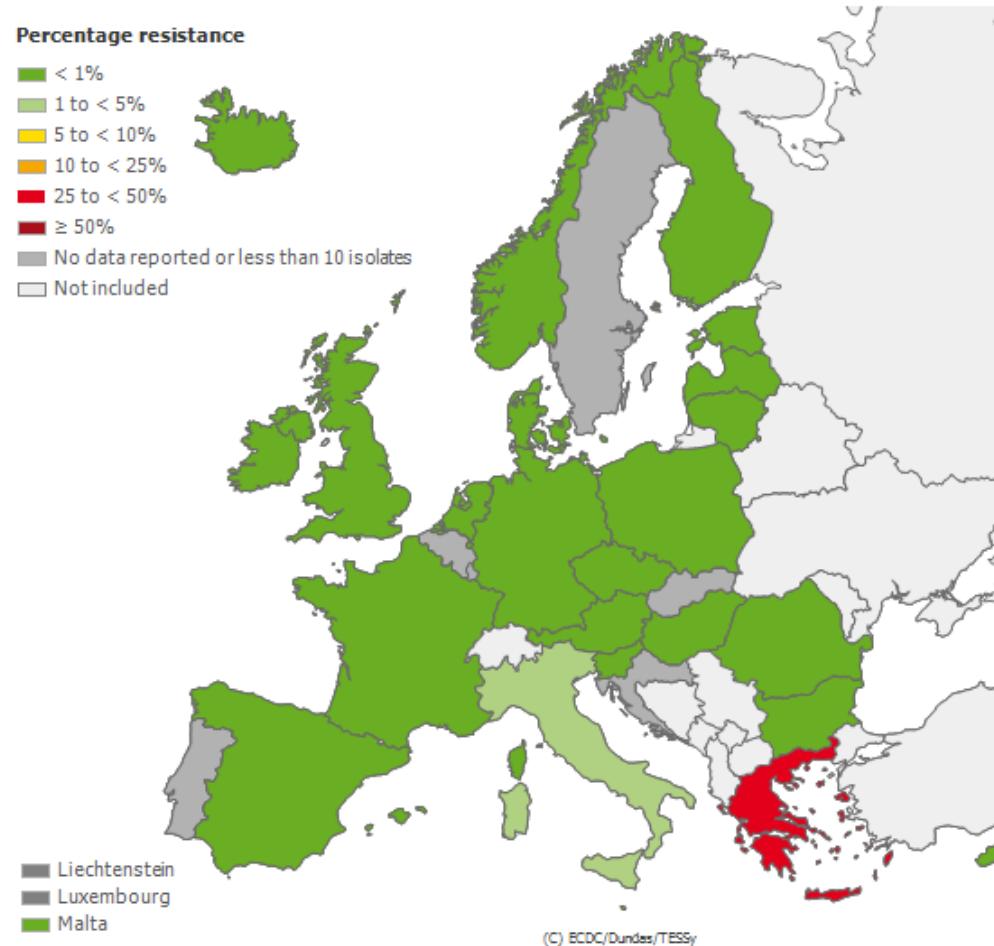
The  
Bacterial  
Menace

Antibiotic resistance spreads

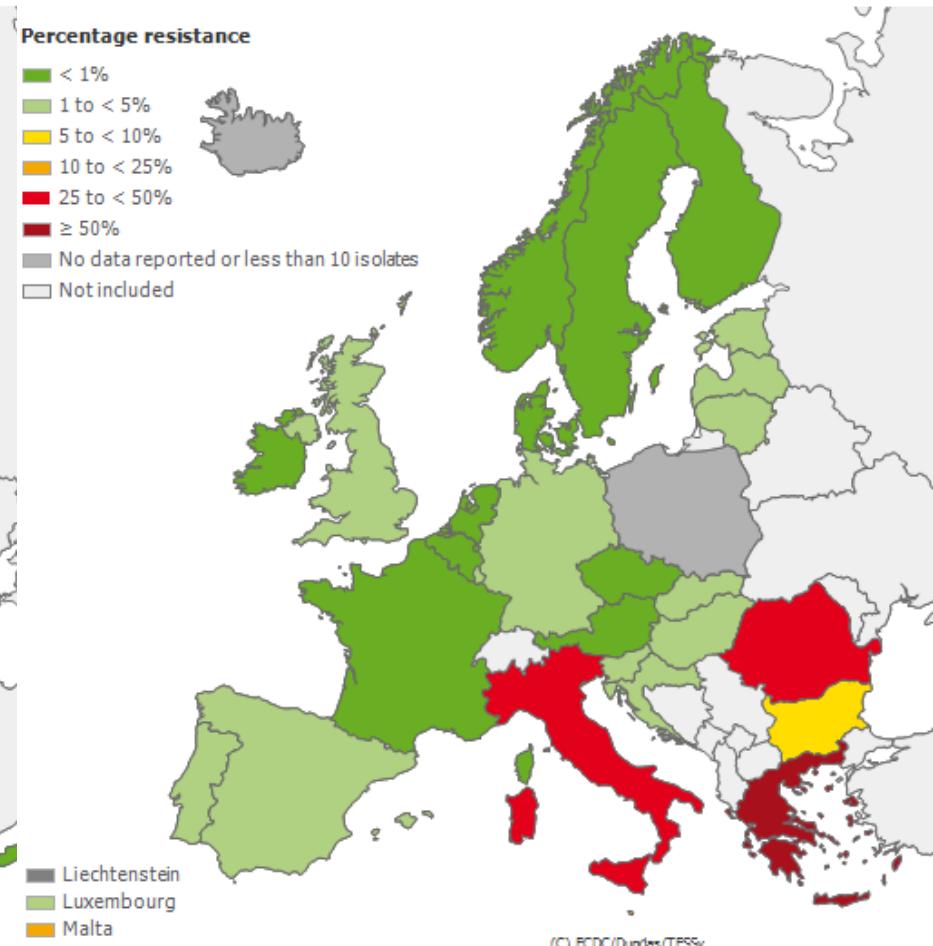


# **Klebsiella pneumoniae, carbapenems non-susceptible**

**2006**



**2014**





## Outbreak of Colistin-Resistant, Carbapenem-Resistant *Klebsiella pneumoniae* in Metropolitan Detroit, Michigan<sup>▽</sup>

Dror Marchaim,<sup>1\*</sup> Teena Chopra,<sup>1</sup> Jason M. Pogue,<sup>2</sup> Federico Perez,<sup>3</sup> Andrea M. Hujer,<sup>3</sup>  
Susan Rudin,<sup>3</sup> Andrea Endimiani,<sup>3</sup> Shiri Navon-Venezia,<sup>4</sup> Jatinder Hothi,<sup>1</sup> Jessica Slim,<sup>1</sup>  
Christopher Blunden,<sup>1</sup> Maryann Shango,<sup>1</sup> Paul R. Lephart,<sup>5</sup> Hossein Salimnia,<sup>5</sup>  
Deborah Reid,<sup>1</sup> Judy Moshos,<sup>1</sup> Wasif Hafeez,<sup>1</sup> Suchitha Bheemreddy,<sup>1</sup>  
Ting-Yi Chen,<sup>1</sup> Sorabh Dhar,<sup>1</sup> Robert A. Bonomo,<sup>3,6</sup> and Keith S. Kaye<sup>1</sup>

## THE LANCET

### Emergence of plasmid-mediated colistin resistance mechanism MCR-1 in animals and human beings in China: a microbiological and molecular biological study

Yi-Yun Liu\*, Yang Wang\*, Timothy R Walsh, Ling-Xian Yi, Rong Zhang, James Spencer, Yohei Doi, Guobao Tian, Baolei Dong, Xianhui Huang,  
Lin-Feng Yu, Danxia Gu, Hongwei Ren, Xiaojie Chen, Luchao Lv, Dandan He, Hongwei Zhou, Zisen Liang, Jian-Hua Liu, Jianzhong Shen



# Colistin resistance superimposed to endemic carbapenem-resistant *Klebsiella pneumoniae*: a rapidly evolving problem in Italy, November 2013 to April 2014

M. Monaco<sup>1,2</sup>, T Giani<sup>2,3</sup>, M Raffone<sup>1,4</sup>, F Arena<sup>3</sup>, A Garcia-Fernandez<sup>1</sup>, S Pollini<sup>3</sup>, Network EuSCAPE-Italy<sup>5</sup>, H Grundmann<sup>6</sup>, A Pantosti (annalisa.pantosti@iss.it)<sup>1</sup>, G M Rossolini<sup>3,7,8</sup>

1. Department of Infectious, Parasitic and Immune-mediated Diseases, Istituto Superiore di Sanità, Rome, Italy

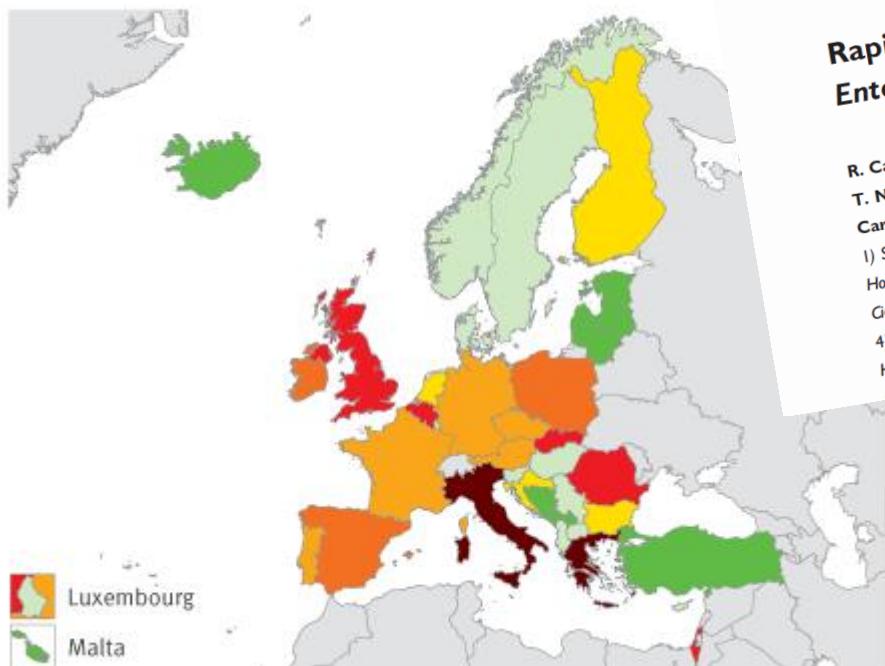
2. MM and TG have equally contributed to this work

3. Department of Medical Biotechnologies, University of Siena, Siena, Italy

4. Federico II University Hospital, Naples, Italy

10.1111/j.1469-0691.2012.03821.x

## A. *Klebsiella pneumoniae* carbapenemase (KPC)



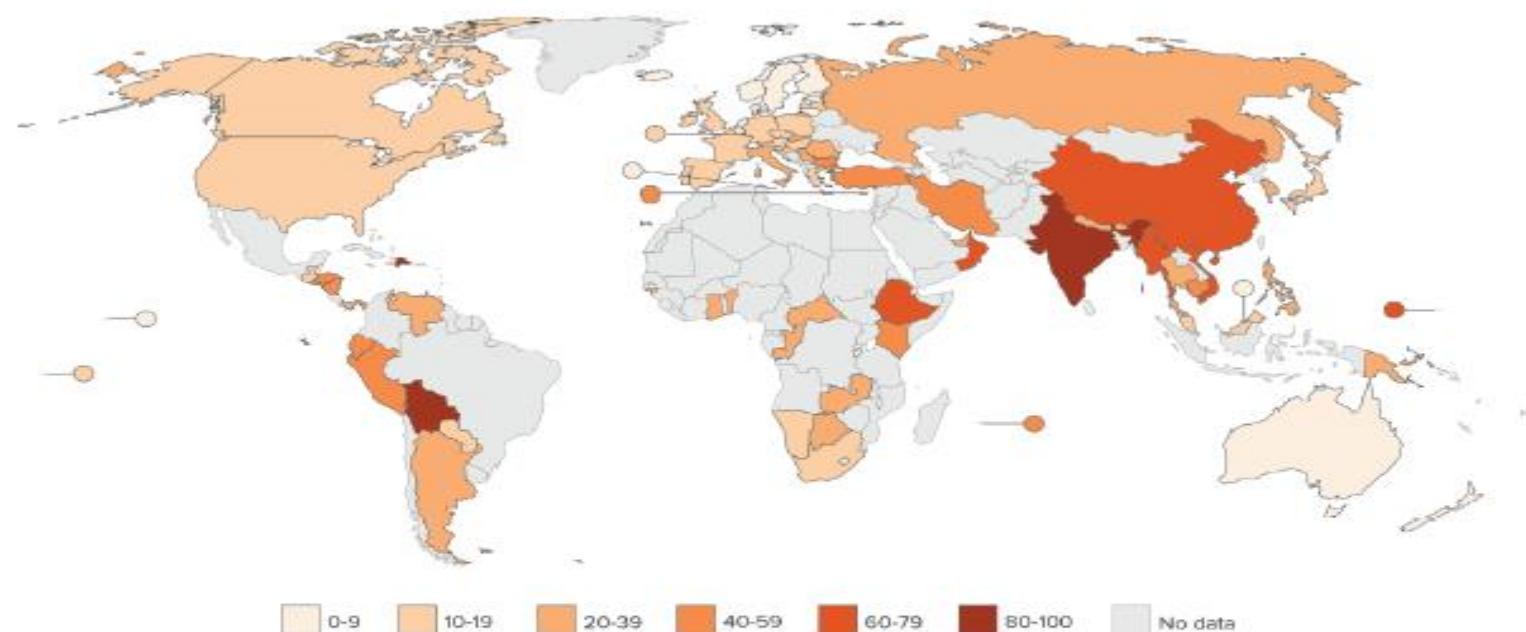
## REVIEW

### Rapid evolution and spread of carbapenemases among Enterobacteriaceae in Europe

R. Cantón<sup>1,2</sup>, M. Akóva<sup>3</sup>, Y. Carmeli<sup>4</sup>, C. G. Giske<sup>5</sup>, Y. Glupczynski<sup>6</sup>, M. Gniadkowski<sup>7</sup>, D. M. Livermore<sup>8,9</sup>, V. Miragou<sup>10</sup>, T. Naas<sup>11</sup>, G. M. Rossolini<sup>12</sup>, Ø. Samuelsen<sup>13</sup>, H. Seifert<sup>14</sup>, N. Woodford<sup>9</sup> and P. Nordmann<sup>11</sup>; the European Network on Carbapenemases\*

1) Servicio de Microbiología and CIBER en Epidemiología y Salud Pública (CIBERESP), Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS) and Hospital Universitario Ramón y Cajal, 2) Unidad de Resistencia a Antibióticos y Virulencia Bacteriana asociada al Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain, 3) Department of Medicine, Section of Infectious Diseases, Hacettepe University School of Medicine, Ankara, Turkey, 4) Division of Epidemiology, Tel-Aviv Sourasky Medical Centre, Tel-Aviv, Israel, 5) Clinical Microbiology MTC, Karolinska Institutet, Karolinska University Hospital, Stockholm, Sweden, 6) National Reference Laboratory for Antibiotic Resistance Monitoring in Gram-negative Bacteria, CHU Mont-Godinne, Hôpital Universitaire de Luxembourg, Luxembourg, 7) Department of Molecular Microbiology, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, USA, 8) National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, USA, 9) Department of Molecular Microbiology, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, USA, 10) Institut Pasteur, Paris, France

# Multi-resistant bacteria: not just a European issue



**FIGURE 1-2: Percentage of extended-spectrum beta-lactamase producing *Escherichia coli*\*, by country (most recent year, 2011–2014)**

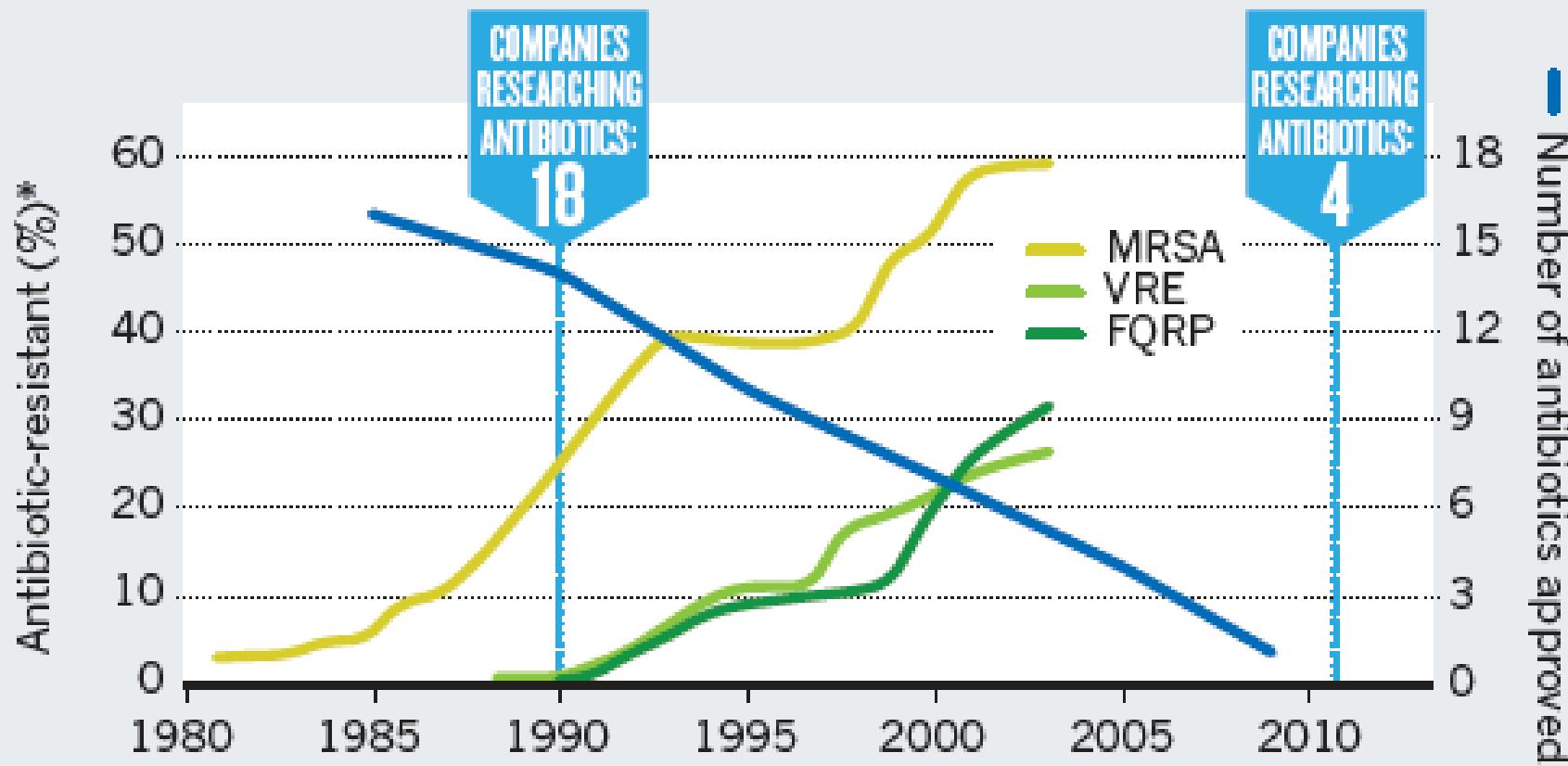
Source: CDDEP 2015, WHO 2014 and PAHO, forthcoming

Where available, data from invasive isolates have been used. In their absence, data from all specimen sources are included. Only countries that reported data for at least 30 isolates are shown. Depending on the country, resistance to one or more of the following drugs were used: Ceftazidime, ceftriaxone and cefotaxime. Intermediate-resistant isolates are included as resistant in some calculations, as in the original data source.

\*Indicated by third-generation cephalosporin resistance

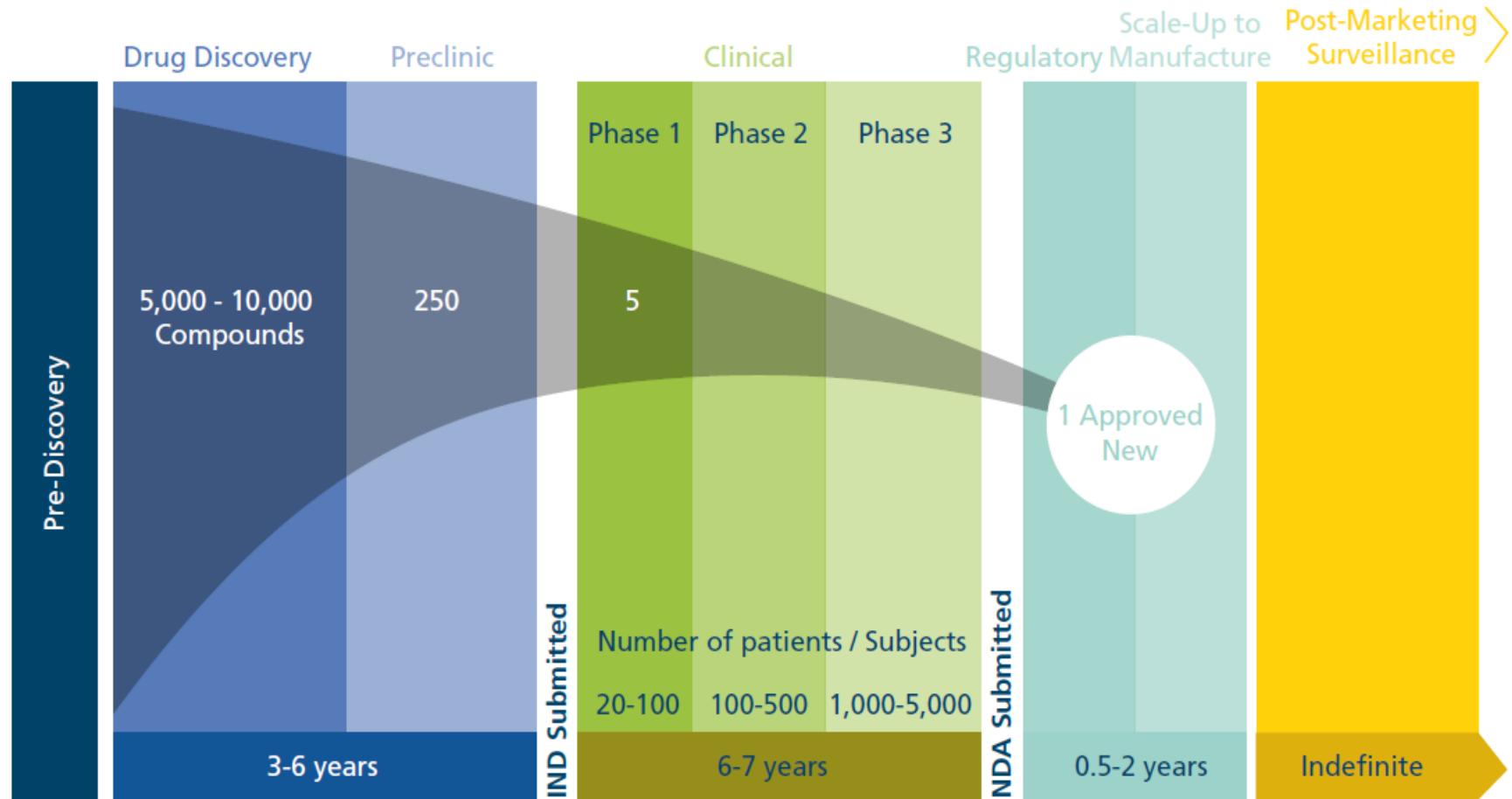
# A PERFECT STORM

As bacterial infections grow more resistant to antibiotics, companies are pulling out of antibiotics research and fewer new antibiotics are being approved.



\*Proportion of clinical isolates that are resistant to antibiotic. MRSA, methicillin-resistant *Staphylococcus aureus*. VRE, vancomycin-resistant *Enterococcus*. FQRP, fluoroquinolone-resistant *Pseudomonas aeruginosa*.

# Why we don't get new antibiotics



# Yeni antibiyotikler ile tipik faz III çalışmaları (klinisyenin bakış açısından)

- Çalışma dizaynı her zaman memnun etmez
- Araştırmacı ve farmasötik şirketler arası etkileşimi az
- Ana çalışmaya alt çalışmaların eklenme olasılığı düşük
- >80% oranda tek bir hasta kaydı olmamakta
- Uzun zaman alır (en azından planlanandan daha uzun)
- Veri koleksiyonu kalitesi uygun olmayabilir



# Yeni antibiyotikler ile tipik faz III çalışmaları (farmasotik şirketlerin bakış açısından)

- Klinisyenler neden belli görünüşlerin gerekli olduğunu anlamamaktadır
- Global CRO bütün araştırmacıları kişisel olarak bildiğini belirtirler, çoğu zaman doğru çıkmamaktadır
- Araştırmacılar her zaman klinik olarak alt çalışmalarla ilgili farklı birşey istemektedir
- >80% oranda tek bir hasta kaydı olmamakta
- Uzun zaman alır (en azından planlanandan daha uzun)
- Veri koleksiyonu kalitesi uygun olmayabilir



# **Yeni antibiyotikler ile tipik faz III çalışmaları (klinisyen ve farmasotik şirketlerin anlaşmaları)**

- >80% oranda tek bir hasta kaydı olmamakta
- Uzun zaman alır (en azından planlanandan daha uzun)
- Veri koleksiyonu kalitesi uygun olmayabilir





Directorate-General for  
Health & Consumers

European Commission



innovative  
medicines  
initiative

## Communication from the Commission to the European Parliament and the Council

Action plan against the rising threats from Antimicrobial Resistance

COM (2011) 748



ND4BB



# Innovative Medicines Initiative (IMI): İş birliği için yeni bir yol

- ❖ Yaşam bilimlerinde en büyük kamu- özel ortaklısı R&D
- ❖ IMI1 başlangıcı 2008, sona eriği 2014
  - 11 Calls launched

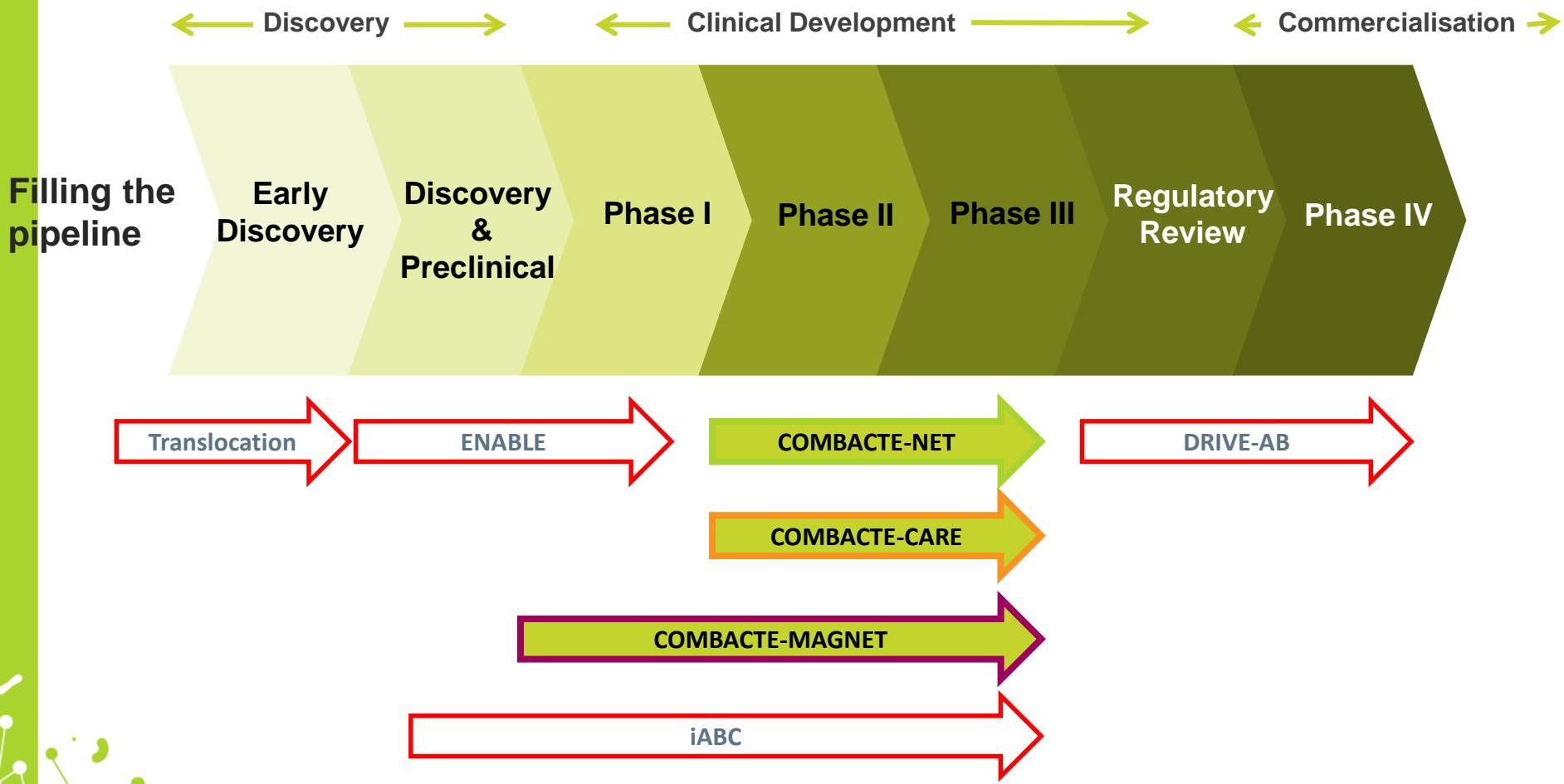


EFPIA = European Federation of Pharmaceutical Industries and Associations

# Innovative Medicines Initiative (IMI): Çalışma için yeni bir yol

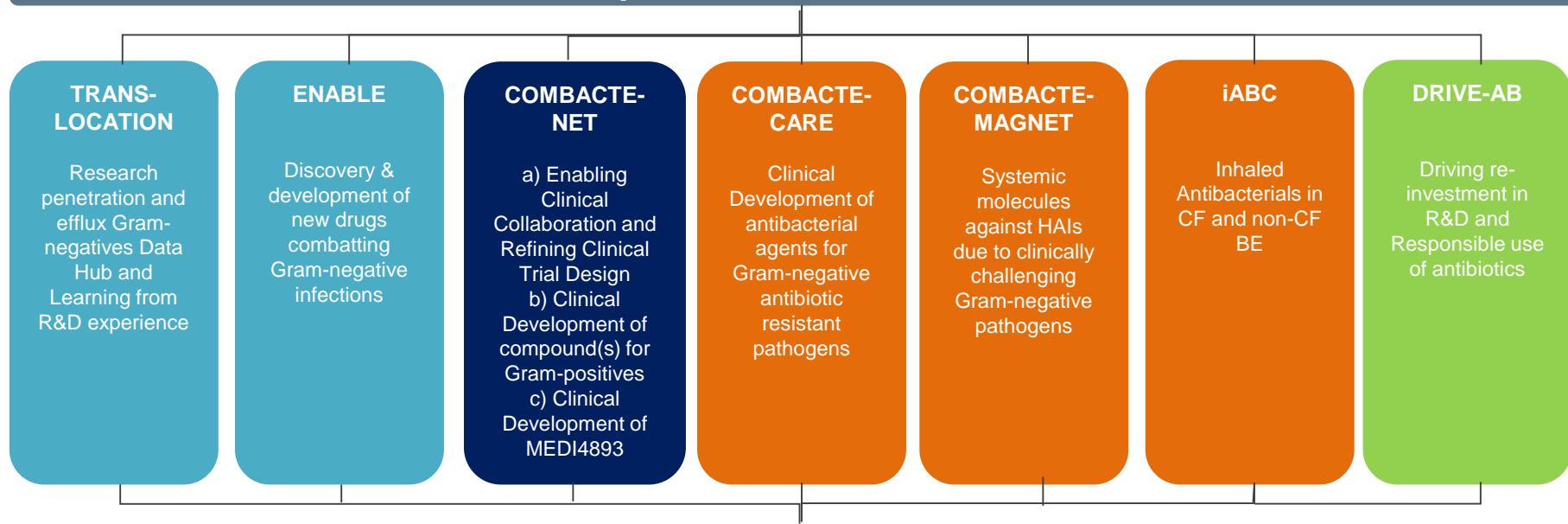
- ❖ Ana hatlar :
  - Avrupada hastalar için daha güvenli ve daha etkili ilaçların geliştirilmesini hızlandırmak
  - *Avrupada biyofarmasötik sektörü geliştirmek*
  - Akademi ve endüstri için iş birliği ortamı yaratır
  
- ❖ ND4BB , Kasım 2011 de Avrupa komisyonu tarafından AMR lansmanlarının artan tehditlerine karşı eylem planının bir parçasıdır

# ND4BB Vizyonu: Hastalara yeni antibakteriyal ajanları sağlama yolları



# ND4BB Programının genel yapısı

## ND4BB cross topic collaboration and dissemination



## ND4BB Information Center

All data generated is submitted and is accessible to all consortium partners



Drug discovery



Drug development Gram-positives



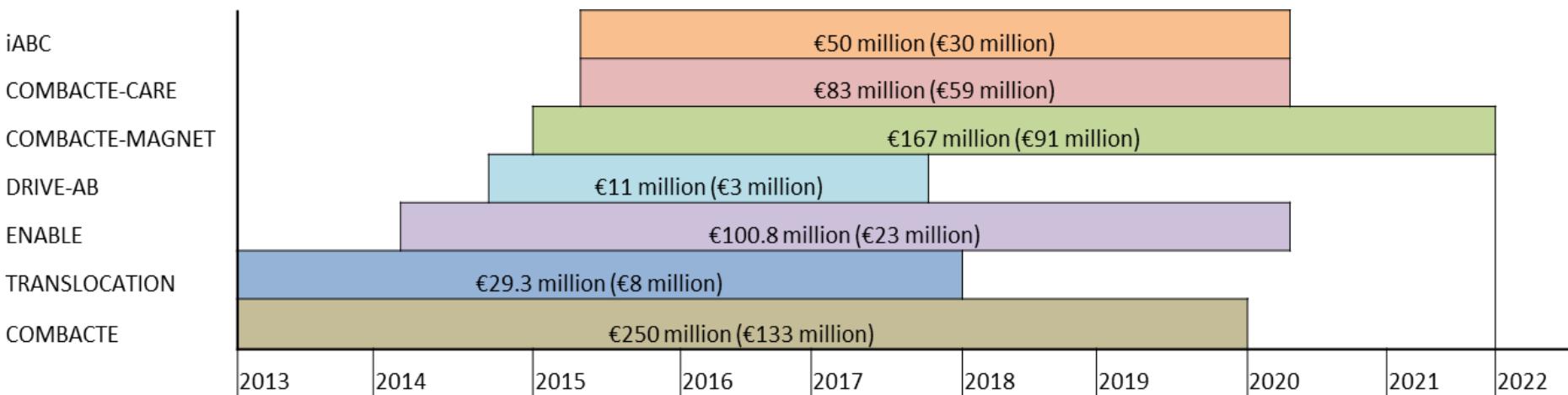
Drug development Gram-negatives



Economics and stewardship



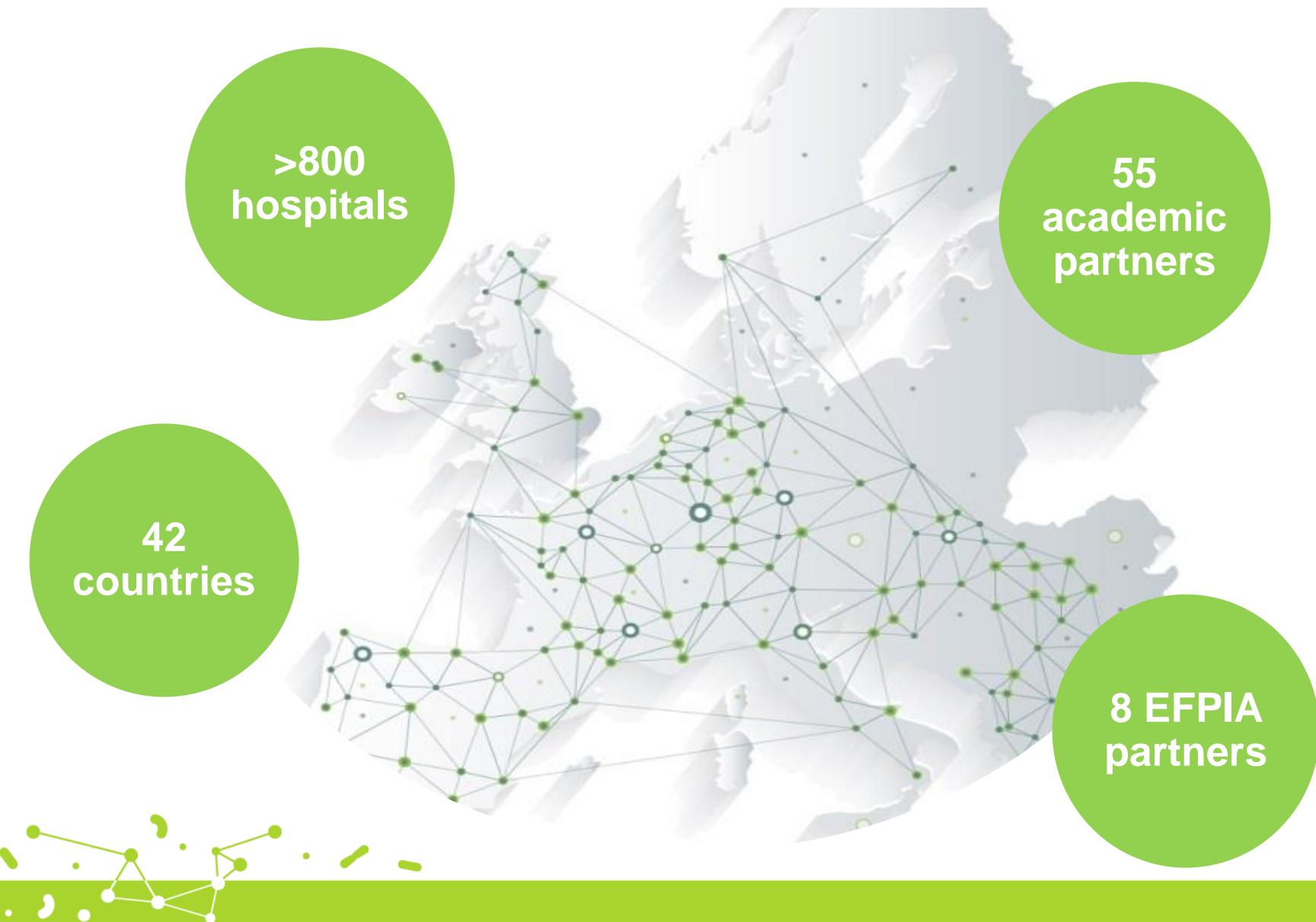
# ND4BB programında 7 konunun zaman çizelgesi ve toplam bütçe tahmini (EFPIA contribution)



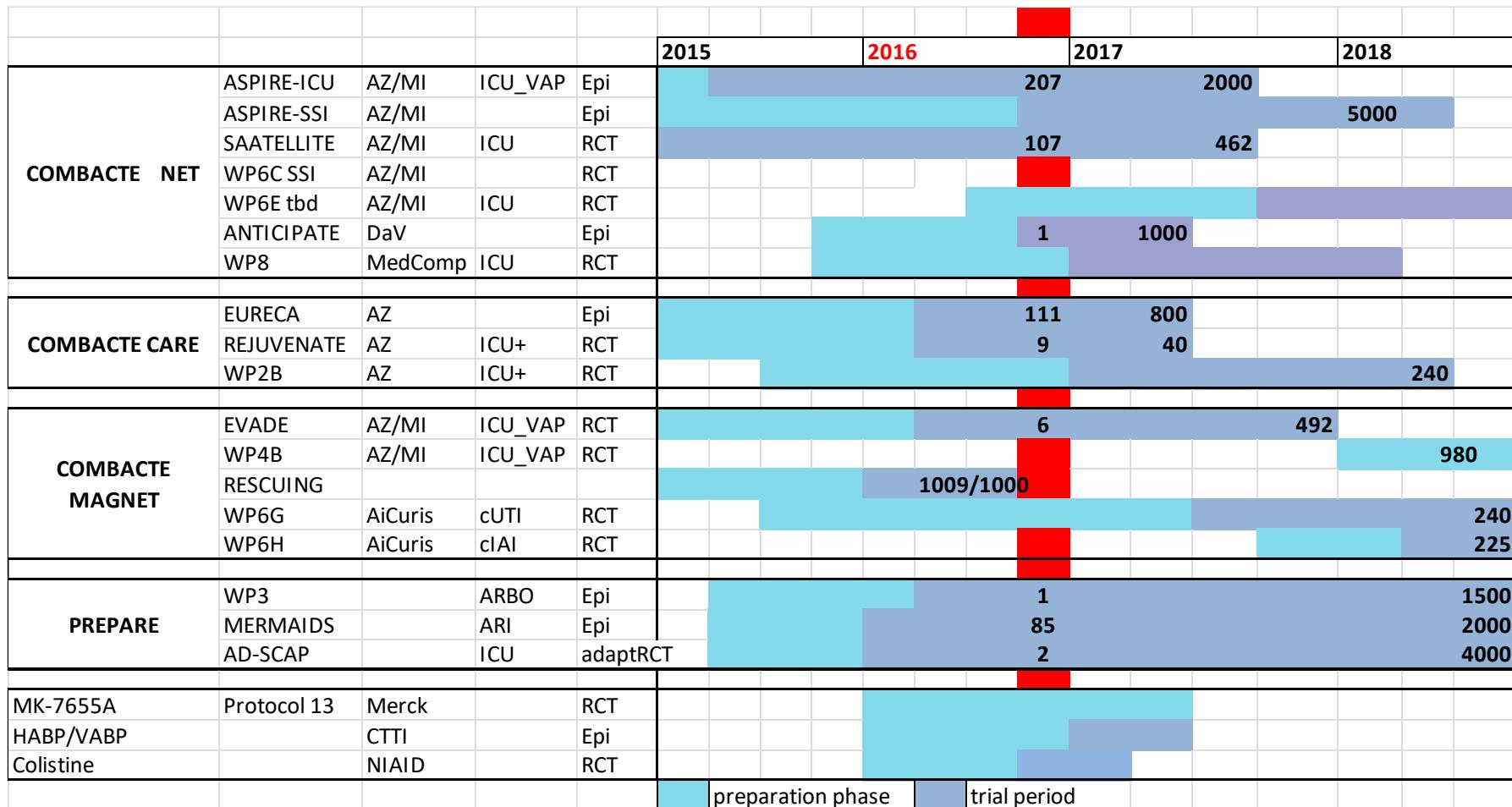
# COMBACTE hedefleri

- ❖ **Süregelen antibakteriyal gelişim ağını yaratmak**
  - Araştırmacı merkezler ile klinik araştırmaların optimum şekilde hızlanması
  - Klinik ve epidemiyolojik veriler elde etmek
- ❖ **Antimikrobiyal ilaç geliştirme verimliliğini artırma**
  - En yeni moleküler metodolojileri ve çalışma dizaynı ile klinik araştırmaları kapsar
- ❖ **Klinik çalışmaları gerçekleştirmek**

# COMBACTE işbirliği



# The COMBACTE *pipeline*



Total enrolled: 1,538 pts



# CLINICAL TRIALS

## THE 4 PILLARS OF COMBACTE



### CLIN-Net

High-quality clinical research network in Europe with certification criteria and GCP Training program

### LAB-Net

High-quality laboratory network in Europe with assessment of existing laboratory methods, quality assessment system, specimens and strains repository

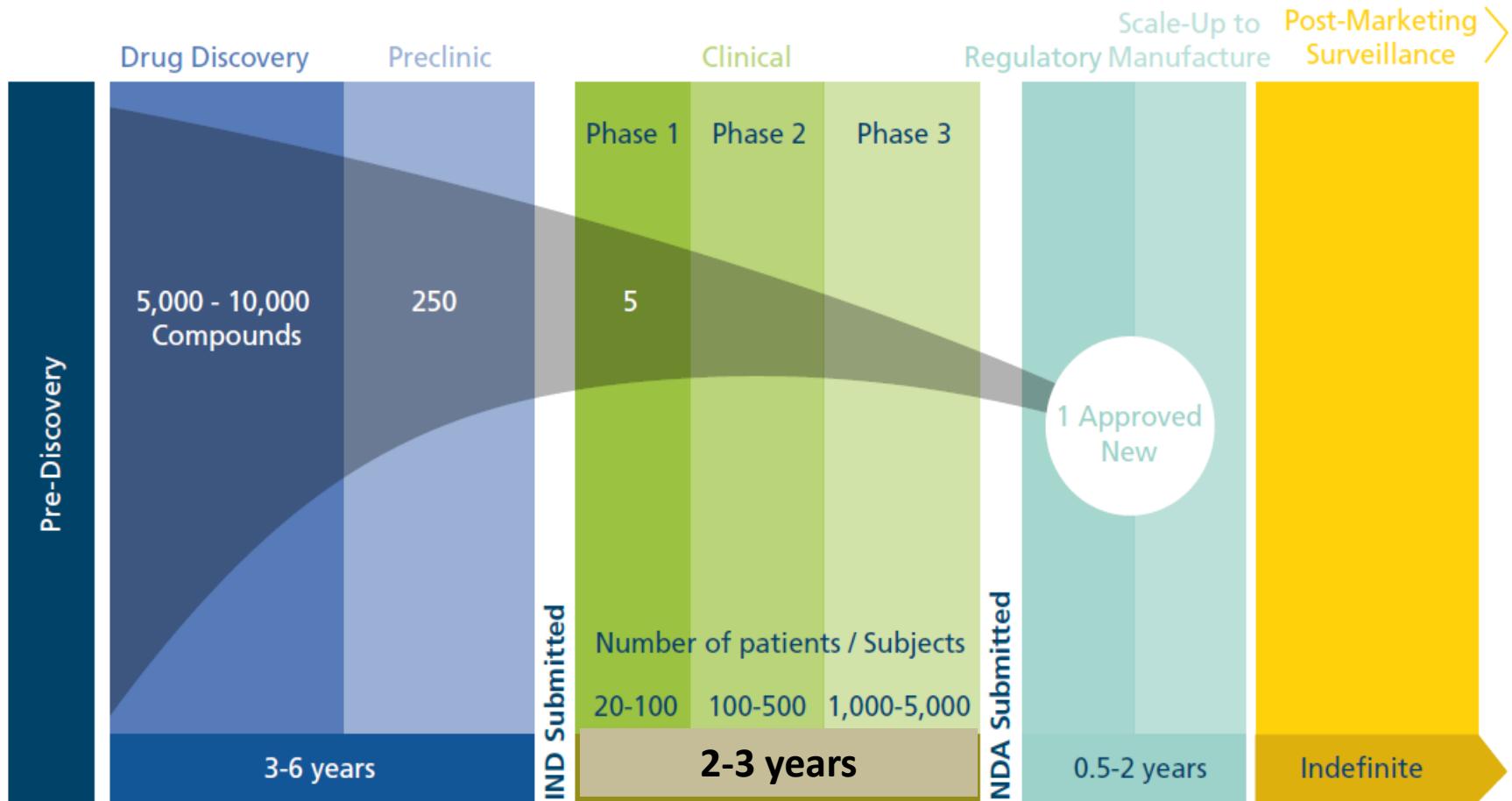
### STAT-Net

Network to improve clinical trials delivery, perform advanced biostatistical and PK/PD modelling studies, evaluate novel clinical design strategies using modern biostatistical concepts

### EPI-Net

Network to identify and map existing surveillance systems, to establish frameworks for data collection to support antibacterial drug development

# COMBACTE'nin hedefleri





## **CLIN-Net**

High-quality clinical  
research network in  
Europe with certification  
criteria and GCP  
Training program

## **COMBACTE CLIN-Net**

- ❖ The European hospital network in COMBACTE
- ❖ Complemented by the European laboratory network LAB-Net



## **CLIN-Net**

High-quality clinical  
research network in  
Europe with certification  
criteria and GCP  
Training program

## **COMBACTE CLIN-Net objectives**

- ❖ Develop and maintain a premier clinical research infrastructure in the field of infectious diseases
  
- ❖ Optimize execution of clinical studies



CLIN-Net

# UMCU CLIN-Net üyeleri

Academic lead



Marc Bonten

Head of PMO



Ron de Winter

Medical coordinator



Miquel  
Ekkelenkamp

Organisation  
coordinator



Miranda Hopman

## CLIN-Net team



Nienke  
Cuperus



Katina  
Kardamanidis



Sophie  
Corthals



Belmira Behlić



Claire-Marie  
Martis

# CLIN-Net çalışmaları

- Merkez değerlendirme ve seçimi
- Çalışma desteği
- Eğitim
  - Good Clinical Practice (GCP)
  - Site-trainings
- Güvenilir uluslararası işbirliğinin kurulması ve devamlı bir hale getirilmesi

# CLIN-Net infrastructure

CLIN-Net PMO



CLIN-Net



# CLIN-Net infrastructure

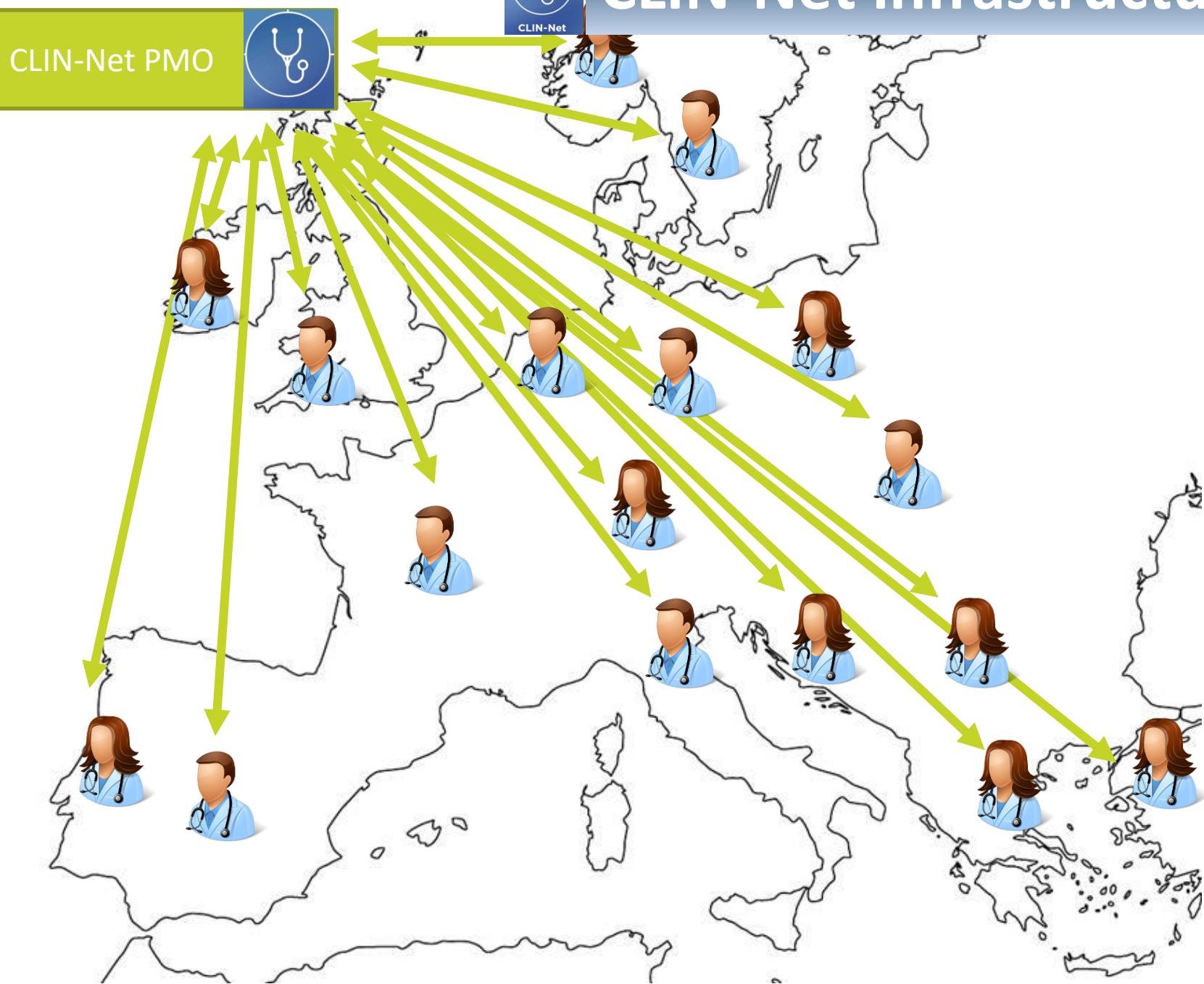
CLIN-Net PMO



CLIN-Net



# CLIN-Net infrastructure



CLIN-Net PMO



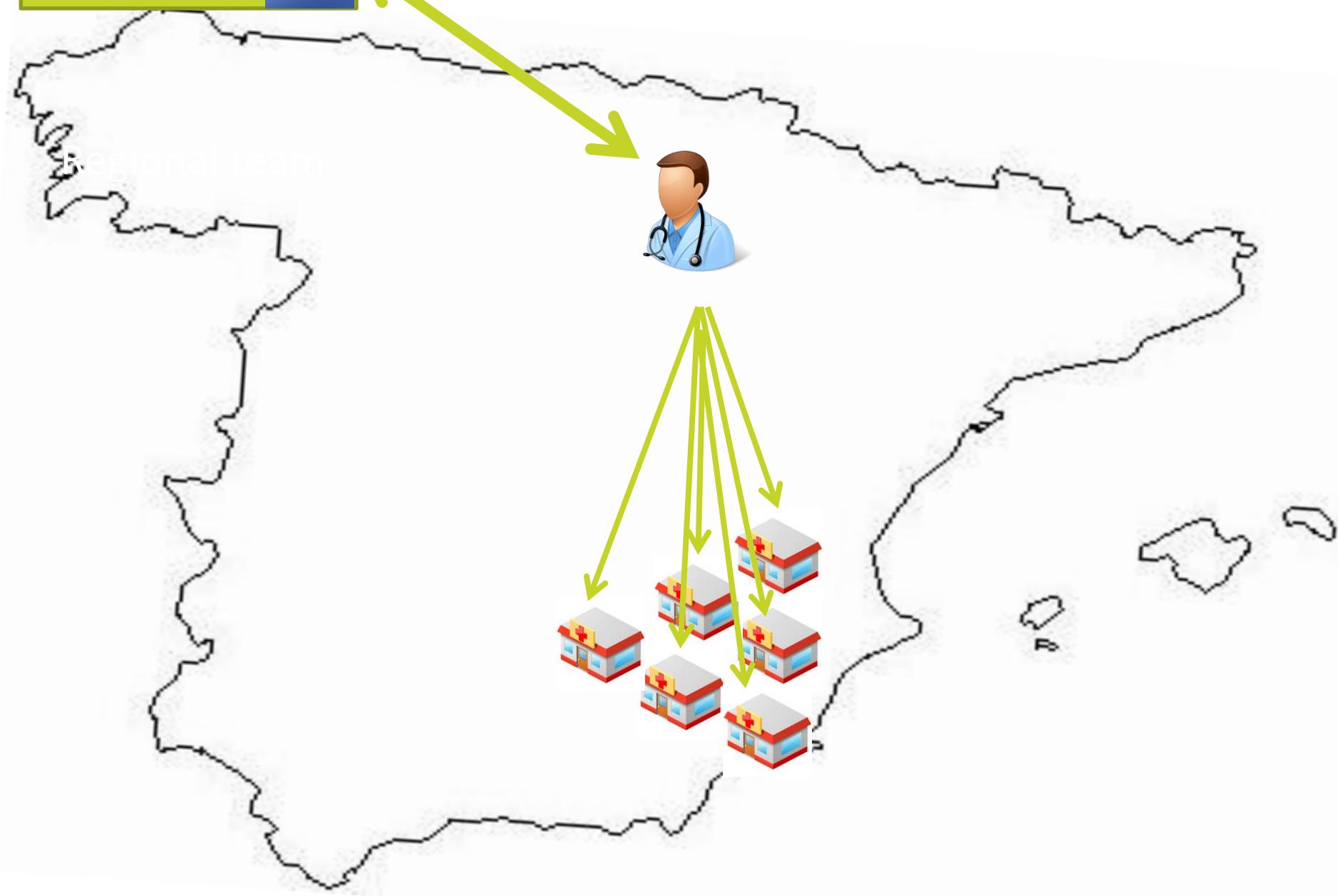
# CLIN-Net infrastructure



CLIN-Net PMO



# CLIN-Net infrastructure



CLIN-Net PMO



LAB-Net PMO

Regional team

Coordinator 1  
subnetwork / specialty

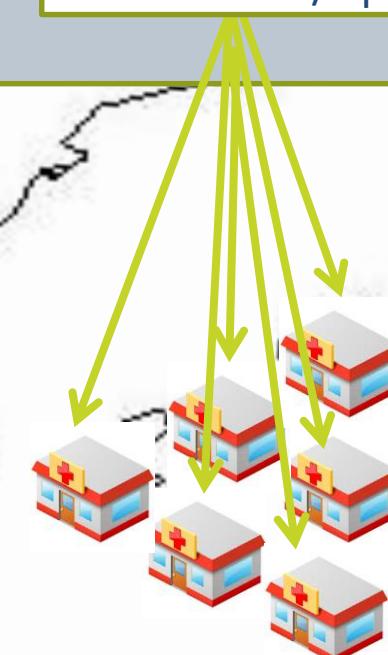
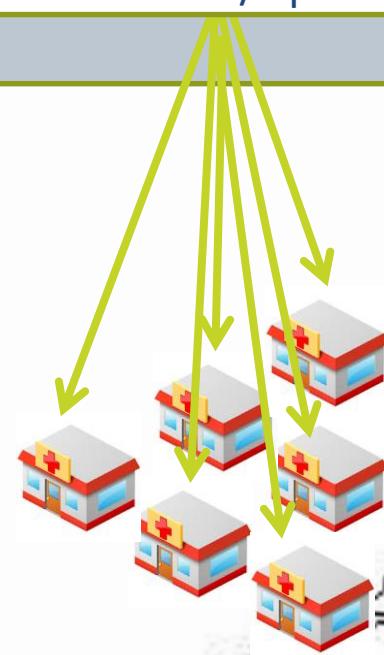
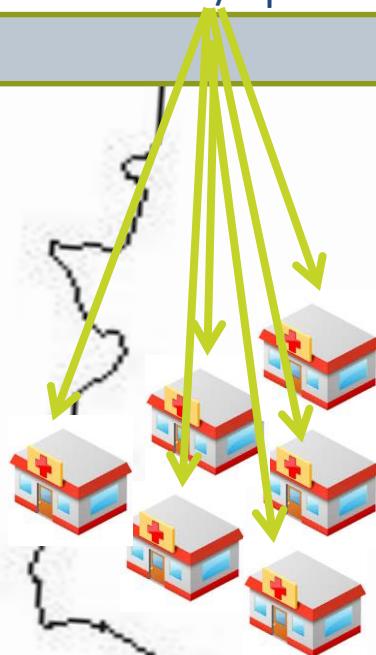
Main contact person



LAB-Net coordinator

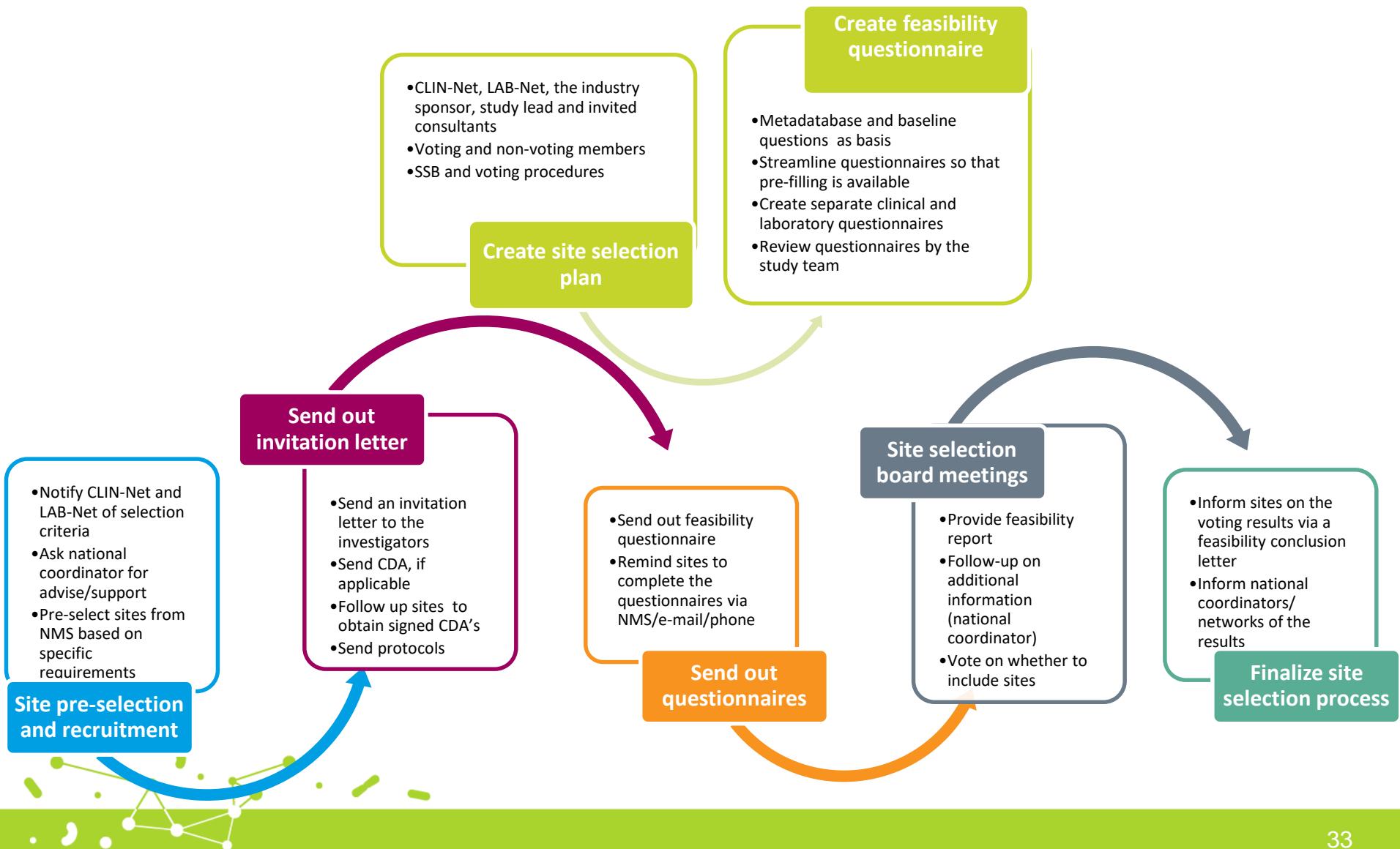
Coordinator 2  
subnetwork / specialty

Coordinator 3  
subnetwork / specialty



CLIN-Net infrastructure

# CLIN-Net merkez seçim işlemleri



# Fizibilite anketleri

- Clinical and laboratory feasibility questionnaires are created based on a list of requirements for clinical sites and local laboratories

**NIH Colistin Trial**

<i>Study</i>	Combacte	<i>Subject</i>	
<i>Form version</i>	7	<i>Inclusiondate</i>	
<i>Form status</i>		<i>Site</i>	
<i>Last saved date</i>			
<i>Last saved by</i>			

This questionnaire will take approximately 25 minutes to complete. Please note: for some questions, information needs to be retrieved from your medical records, laboratory database or pharmacy. Therefore, the questionnaire allows you to save the information already entered and to continue later. By using the same URL/web address, you will be able to continue where you left off. Consent The responses to the questionnaires, which include your personal data and data relating to the institution of which you are an employee, will be stored in a database. By submitting this questionnaire, you: a) Consent to the storage and processing of your responses; b) Warrant that this (personal) data is correct; c) Warrant that the institution consents to submitting the data in the questionnaires; d) Consent to the possibility CLIN-Net might contact you in the future regarding projects CLIN-Net might be involved in. You will at all times retain the right to withdraw your consent.

Access The database is only accessible to COMBACTE CLIN-Net. However, you will have access to your own personal data and data that relates to the hospital / institution of which you are an employee. You have the right to correct the information stored in the database.

Protection of (personal) data COMBACTE CLIN-Net has implemented appropriate technical and organizational measures to protect (personal) data against loss or any form of unlawful processing.

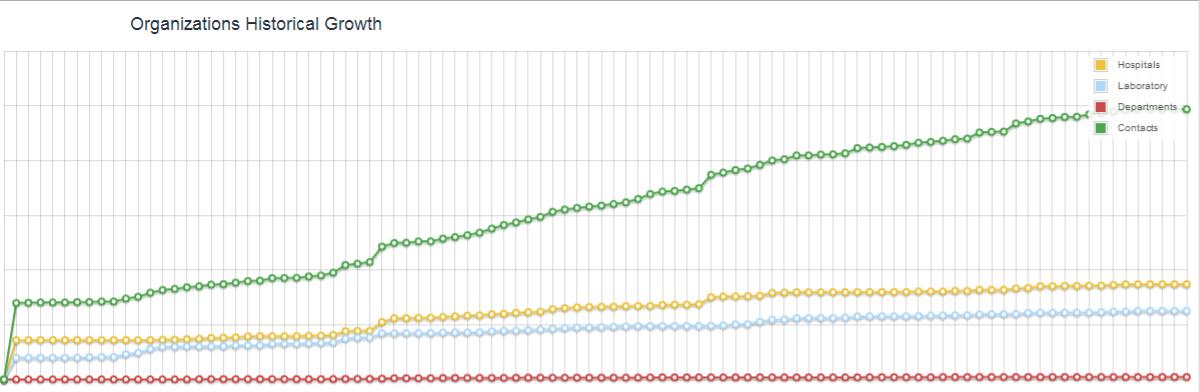
Privacy The processing of (personal) data by CLIN-Net will be in accordance with applicable laws and regulations regarding privacy, such as the Dutch Personal Data Protection Act and the European Directive 95/46/EC on the protection of individuals with regard to the processing of personal data and on the free movement of such data.

I understand and want to continue the questionnaire

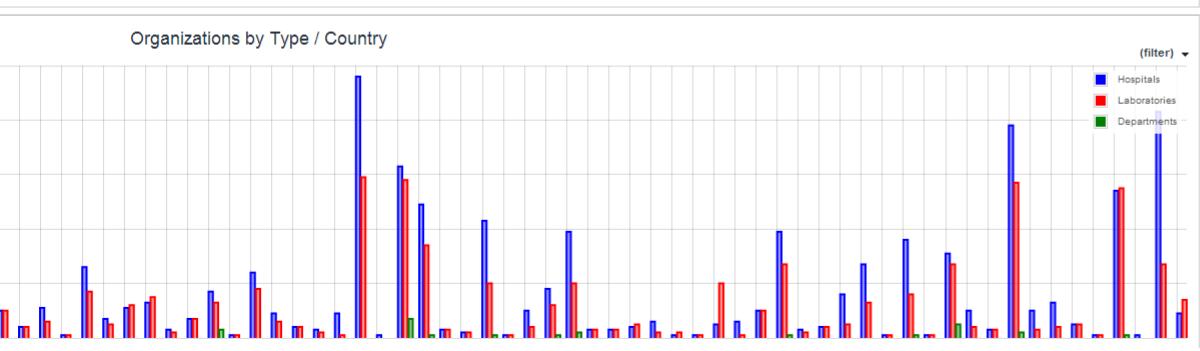
Yes  
 No

# Bazi raporlar:

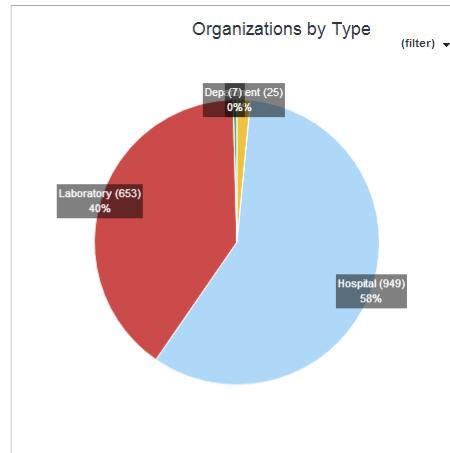
Organizations Historical Growth



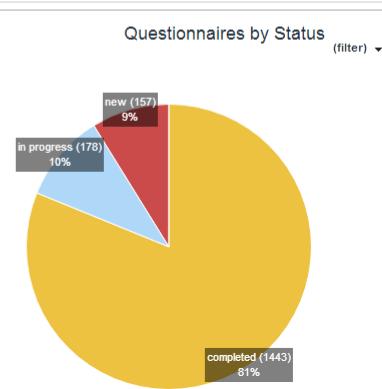
Organizations by Type / Country



Organizations by Type



Questionnaires by Status



# Önceden doldurulmuş anketler



Home    Switch active study    My Account    Administration ▾    Study configuration ▾    Research ▾    Reporting ▾

Institution Name  
University medical center Utrecht

Department  
Julius Center

Address  
Heidelberglaan 100

City  
Utrecht

Postal code  
3454 RD

Country  
The Netherlands



# Merkezlerin önseçimi ve denemeleri

**CLIN-Net ve LAB-Net, devam eden çalışmanın özel gereksinimlerine dayanarak seçilmiş merkezlerin bir başlangıç listesini oluşturur.**

1. Based on information COMBACTE has on a large and growing number of hospitals aligned with laboratories in the COMBACTE Network Management System (NMS).
2. Ask national network coordinator(s) to pre-select sites within their network based on their experiences with the sites.



School of Medicine

Dear Dr. Emanuele Durante Mangoni,

We would like to formally invite you to participate with University of Naples S.U.N./Monaldi Hospital in a "Randomized Controlled Trial for the Treatment of Extensively Drug-Resistant Gram-negative Bacilli". This trial is sponsored by the National Institute of Allergy and Infectious Diseases (NIAID) in the United States of America, and funded by the National Institutes of Health.

## Invitation letter with link



# Fizibilite anketleri

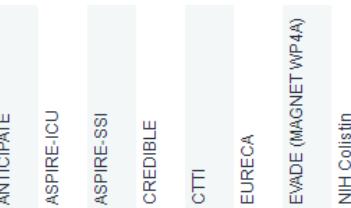
Organization Name	Organization Type	Questionnaire Status	Country	Study Group	Report	Export to Excel	ASPIRE SSI CLIN	ASPIRE SSI Lab	Baseline clin	Baseline lab	CREDIBLE clin	CREDIBLE lab	CTTI	EURECA clin	EURECA lab	EVADE	Historical Baseline clin	NIH Collistine Trial clin	NIH Collistine Trial lab	PREPARE_WP2	PREPARE_WP5 AD SCAP	PREPARE_WP7 lab
Azienda Ospedaliera Universitaria Integrata	Hospital		Italy					✉️	✉️		✉️	🏁	✉️		✉️	✉️						✉️
Azienda Ospedaliera Universitaria Senese	Hospital							✉️														
Azienda Ospedaliera – University of Padova	Hospital								🏁	⏳	🏁	🏁		⏳			🏁				✉️	🏁
Azienda Ospedaliero- Universitaria di Udine	Hospital							🏁														
Azienda Ospedaliero-Universitaria Ospedali Riuniti Ancona	Hospital							🏁														
Azienda Ospedaliero-Universitaria Pisana	Hospital									✉️												
Azienda Sanitaria Locale Ospedale Di Venere Bari	Hospital							✉️														
BRESCIA Hospital	Hospital								✉️													
Clinica di Malattie dell'Apparato Respiratorio, Arcispedale S. Anna	Hospital								✉️	✉️	✉️	🏁		⏳							✉️	
FIRENZE Careggi Hospital	Hospital								🏁													
Florence University Hospital	Hospital									🏁	🏁	🏁	🏁				✗	🏁	✉️	✉️	✉️	✉️
Hospital Luigi Sacco	Hospital									🏁	🏁	🏁	🏁				🏁	✗	✗	✉️		✉️
IRCCS Fondazione Ca Granda Ospedale Maggiore Policlinico	Hospital								🏁	🏁	🏁	🏁					🏁	✗	✗	✗	✉️	🏁
Molinette Teaching Hospital	Hospital																🏁	🏁			🏁	🏁

# Çalışma grupları

Per Organization

Per Country

Organization Name



Study Name

ANT

Country

Export to CSV

Organization

Type

Country

AAA_ALBANIE TEST SITE!!!	Hospital	Albania				
APHP Beaujon	Hospital	France	Selected			
APHP Bichat	Hospital	France				
APHP St Louis	Hospital	France	Back-up			
Attikon University General Hospital	Hospital	Greece	Not selected			

Members



1 to 20 of 91



Name	Organization	Type	Role	Email	Phone	Country
Muriel Fartoukh	APHP Tenon	Hospital	Principal Investigator	muriel.fartoukh@aphp.fr		France
Guillaume Arlet	APHP Tenon	Laboratory	Laboratory lead	guillaume.arlet@aphp.fr		France
Guillaume Voiriot	APHP Tenon	Hospital	Sub-investigator	guillaume.voiriot@tnr		France
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# The COMBACTE Merkez seçim masası

- **Fizibilite anketlerinde verilen bilgiler temelinde SSB merkezleri değerlendirir :**
  - Seçilen merkez
  - Yedek merkez
  - Seçilmeyen merkez
- **Her merkez bir “karar mektubu” gösterilerek bilgilendirilir**
- **Ulusal koordinatörlere ülkelerindeki seçim bölgesi ve seçim sürecinin sonuçları hakkında bilgi verilir**



# Çalışma bilgisi ve süreci

Selected Study: ASPIRE-ICU

Selected Organization: UMC Utrecht

	General	Site Milestones	Actual
Site status	active recruiting		
Name monitor	tbd		
Email monitor	tbd		
Phone monitor			
Date clinical FQ sent	16/04/2015		The send date, reminders and completed date are automatically filled based on the associated Questionnaire
Nr reminders clinical FQ	0		
Date FQ completed	16/04/2015		
Date site selected	01/09/2015	<input type="button" value="Selection Status"/>	Selected
Selection Status Comment			
CDA sent date	01/10/2015	<input type="button" value="CDA signed date"/>	07/10/2015
		<input type="button" value="Nr days btwn CDA sent date and CDA signed date"/>	6
contract sent	07/10/2015	<input type="button" value="date contract signed"/>	30/10/2015
		<input type="button" value="days between contract sent and contract"/>	23
	General	Site Milestones	Actual
		Expected number	Actual number
no of subjects planned		100	72
no of subjects screened		1000	699
no of subjects screen failure		900	627
no of subjects enrolled		100	72
no of subjects randomized		0	0
no of subjects drop out		0	0
no of subjects completed		100	0

# GCP in COMBACTE

- Adequate training in GCP essential for reliable execution of trials
- COMBACTE will (in the near future) require all personnel actively involved in studies to be GCP compliant
  - Basically: all people obtaining informed consent and completing research files (CRFs)
- CLIN-Net GCP-training complies with TransCelerate requirements
  - Also with PharmaTrain requirements (EU accreditation) and EU directives and regulations
- Where feasible and necessary, obtaining national or EU accreditation (CME) is sought for its courses
  - If solicited by participants / national coordinator



# Online GCP Kursu

**Partnership with Elevate Health, a company specialized in online education, to develop an interesting, online GCP Course**

- Interactive, e-moderator
- Takes 6 to 8 hours to complete, must finish within one calendar month
- Compliant with TransCelerate and PharmaTrain requirements



Hello, I am dr. Whitmore. I am the investigator during the clinical trial you will be reading about in the following Learning Units. According to ICH-GCP, an investigator is:  
'A person responsible for the conduct of the clinical trial at a trial site. If a trial is conducted by a team of individuals at a trial site, the investigator is the responsible leader of the team and may be called the principal investigator.'

As a principal investigator I can supervise so-called subinvestigators. According to ICH-GCP, a subinvestigator is 'any individual member of the clinical trial team designated and supervised by the investigator at a trial site to perform critical trial-related procedures and/or to make important trial-related decisions (e.g., associates, residents, research fellows)'.

# F2F eğitimi: EF-GCP ile işbirliği

- 1 or 2-day training
- Since our last meeting:
  - Belgrade
  - Budapest
  - Madrid
  - Athens
- In planning: Sofia
- Others: when requested by investigators / NC



# Investigators GCP trained by CLIN-Net

Year	Online GCP course	Face to face GCP courses
2016	108	102
2015	96	55
2014	38	22
<b>Total</b>	<b>242</b>	<b>179</b>

# Diğer iletişim kanalları

- Ulusal koordinatörler ile
  - Country visits
  - Quarterly updates to NC
- Diğer katılımcılar ile
  - Yearly ECCMID-meeting
- Kamu ile
  - Website and newsletter
  - New: Dashboard on website
  - Magazine
  - Presence at meetings



# Website: [www.combacte.com](http://www.combacte.com)

The screenshot shows the homepage of the COMBACTE website. At the top, there is a navigation bar with links for ABOUT, ND4BB, NEWSROOM, EVENTS, PUBLICATIONS, DOWNLOADS, and CONTACT. To the right of the navigation bar is a green circular search icon with a magnifying glass symbol. The main title "Combatting Bacterial Resistance in Europe" is displayed prominently in white text against a blue background featuring a stylized illustration of bacteria. Below the title, there are four white buttons labeled CLIN-Net, LAB-Net, STAT-Net, and EPI-Net. At the bottom, there are three white boxes containing the text "About COMBACTE", "ANTICIPATE First", and "Good Clinical". A decorative graphic of green dots connected by lines is located at the bottom left.

ABOUT ND4BB NEWSROOM EVENTS PUBLICATIONS DOWNLOADS CONTACT

Combatting Bacterial Resistance in Europe

CLIN-Net LAB-Net STAT-Net EPI-Net

About COMBACTE ANTICIPATE First Good Clinical

47

# Çalışma göstergе tablosу

[HOME](#)[COMBACTE-NET](#)[COMBACTE-MAGNET](#)[COMBACTE-CARE](#)[JOIN COMBACTE](#)[ABOUT](#)[NEWSROOM](#)[DASHBOARD](#)[TRIALS](#)[PARTNERS](#)[PUBLICATIONS](#)

## About this study

### Study information

Study No:	<b>NA</b>
Study Name:	<b>ASPIRE-ICU</b>
Test Article:	<b>NA</b>
Study Type:	<b>Observational</b>
Study Status:	<b>Active</b>
Enrollment Period:	<b>Jun2015 - Sep2017</b>

### Subject screening and enrollment

Total Subjects Planned:	<b>2000</b>
Total Subjects Screened:	<b>1604</b>
Total Subjects Enrolled:	<b>241</b>
Enrollment Completed:	<b>12,05%</b>

### Site selection

Nr countries planned:

**11**

Nr sites planned:

**30**

Nr sites initiated per country:

**19**

# Sorular ?

