



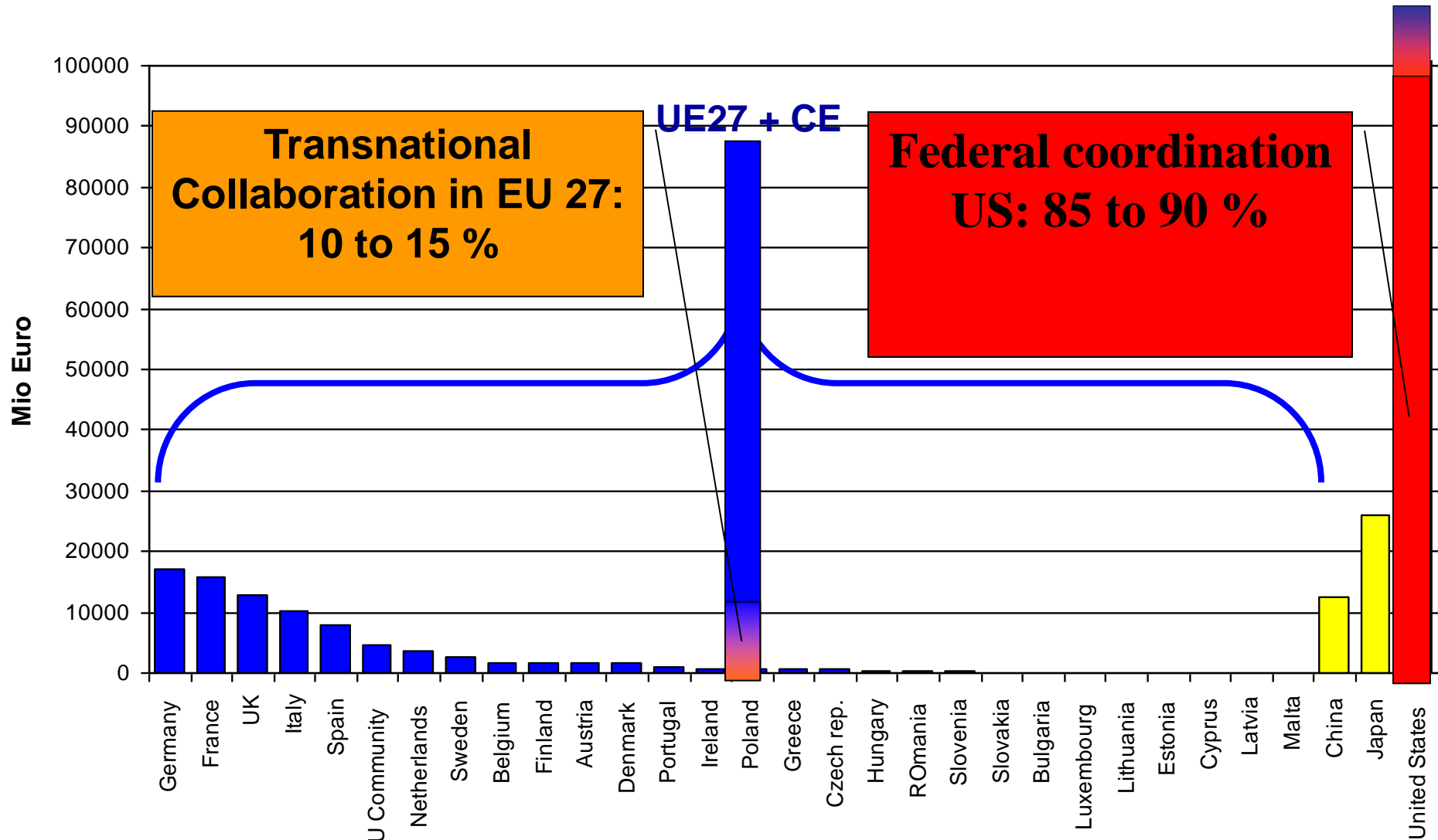
# European coordination of R&D programmes

Michèle Longuet

French Ministry of Higher Education and Research



# Coordination of Public fundings

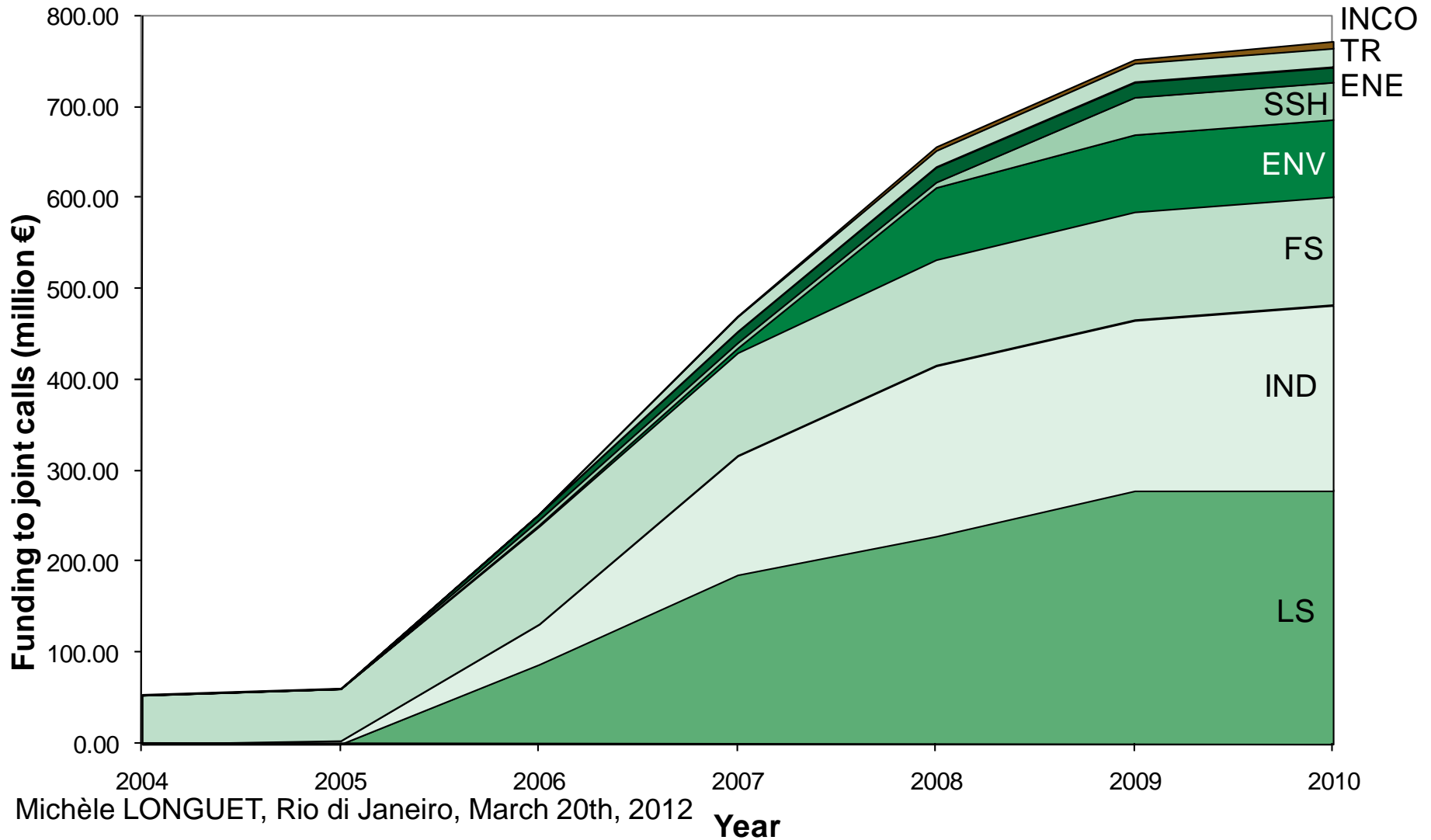




# Coordination of Public fundings: ERA-NETs

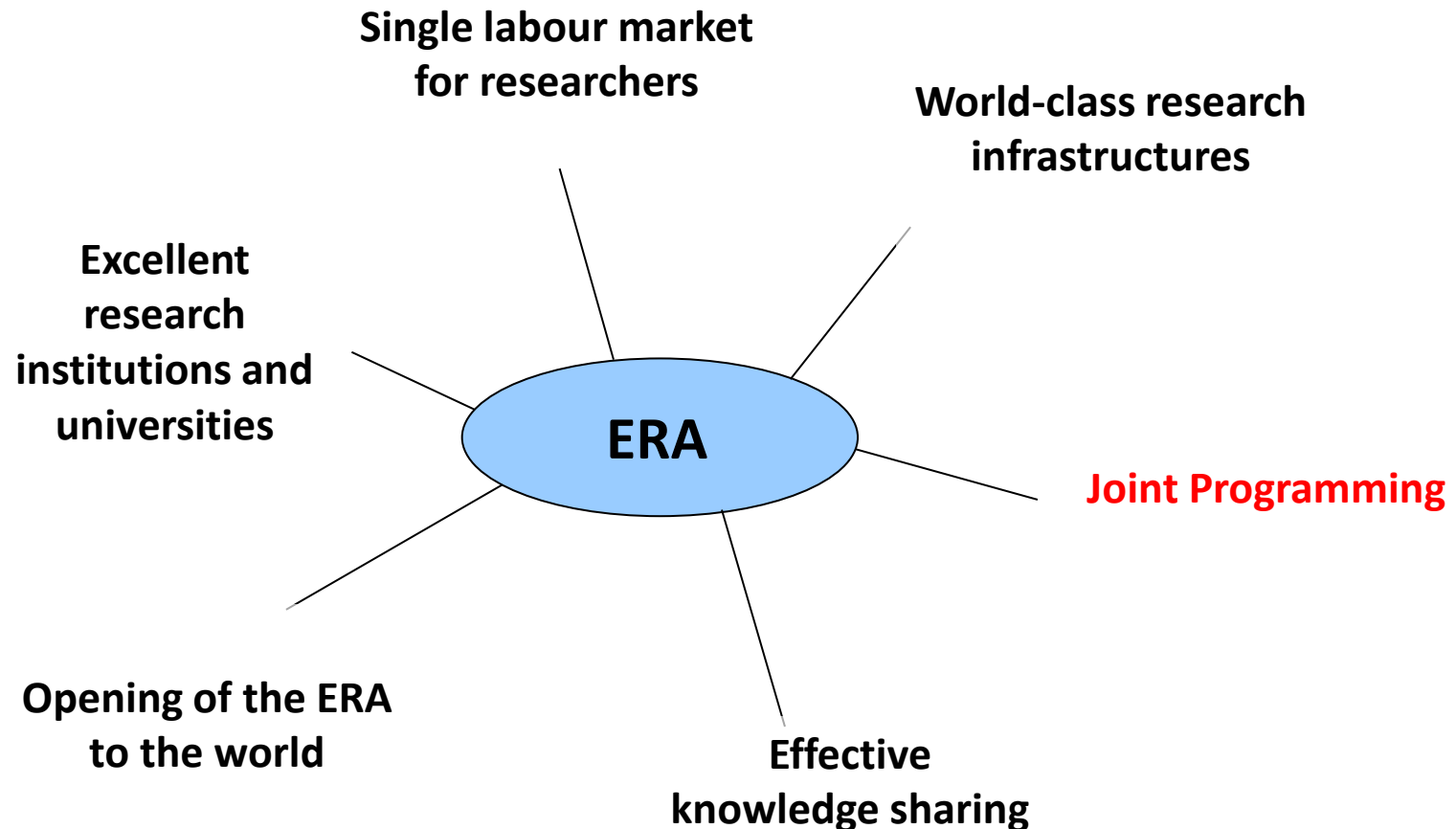


Cumulative funding to joint calls across years by theme





# Building European Research Area





# Joint Programming



## Objectives:

- Science and Technology must contribute to **solving major societal challenges**
- Reduce compartmentalisation of public research funding in the EU
- National research programmes have their place... but are not equipped to tackle major European societal problems by themselves

## Response to challenges:

- Commission Communication on Joint Programming (July 2008)
- Council Conclusions adopted in December 2008



# Joint Programming



## Definition of Joint Programming for Member States

- **Voluntary** and on the basis of **variable geometry**
- ...in the definition, development and implementation of **common strategic research agendas**
- ...based on a **common vision** on how to address major societal challenges

## Process:

- Stage 1: Development of a common vision;
- Stage 2: Definition of a strategic research agenda;
- Stage 3: Implementation of the Strategic Research Agenda.



# Joint Programming



## **Stage 1: Development of a common vision in an agreed area;**

- Foresight activities;
- Inclusiveness participation;
- Access to the existing expertise.



# Joint Programming



## **Stage 2: Definition of a strategic research agenda**

To make the vision operational one must translate it into a Strategic Research Agenda with SMART objectives (Specific, Measurable, Achievable, Realistic and Time-based).

Issues of financing and of exploitation of research results could represent sources of potential bottlenecks..





# Joint Programming



## **Stage 3: Implementation of the Strategic Research Agenda**

The most sensitive issues here, are:

- ways and means of financing the cross-border researches;
- management and sharing of the Intellectual Property Rights (IPR) giving the rights for the exploitation of the results;



# 9 Joint Programming Initiatives



- **Neurodegenerative Diseases/Alzheimer's**
- **Agriculture, food security and climate change**
- **A healthy diet for a healthy life**
- **Cultural heritage & global change**
- **Urban Europe - Global Challenges, Local Solutions**
- **More years, better lives**
- **The microbial challenge - An emerging threat to human health**
- **Water challenges for a changing world**
- **Healthy & productive seas and oceans**



# The microbial challenge - An emerging threat to human health: JP AMR

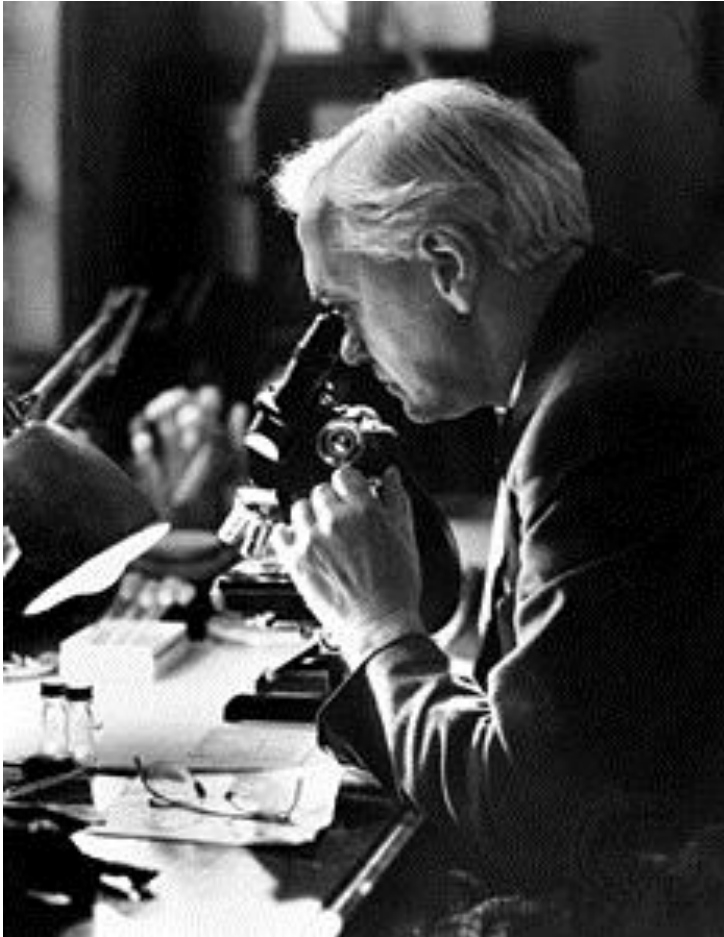


*Joint Programming Initiative – Antimicrobial Resistance*

Michèle LONGUET, Rio de Janeiro, March 20th, 2012



# The microbial challenge - An emerging threat to human health: JP AMR

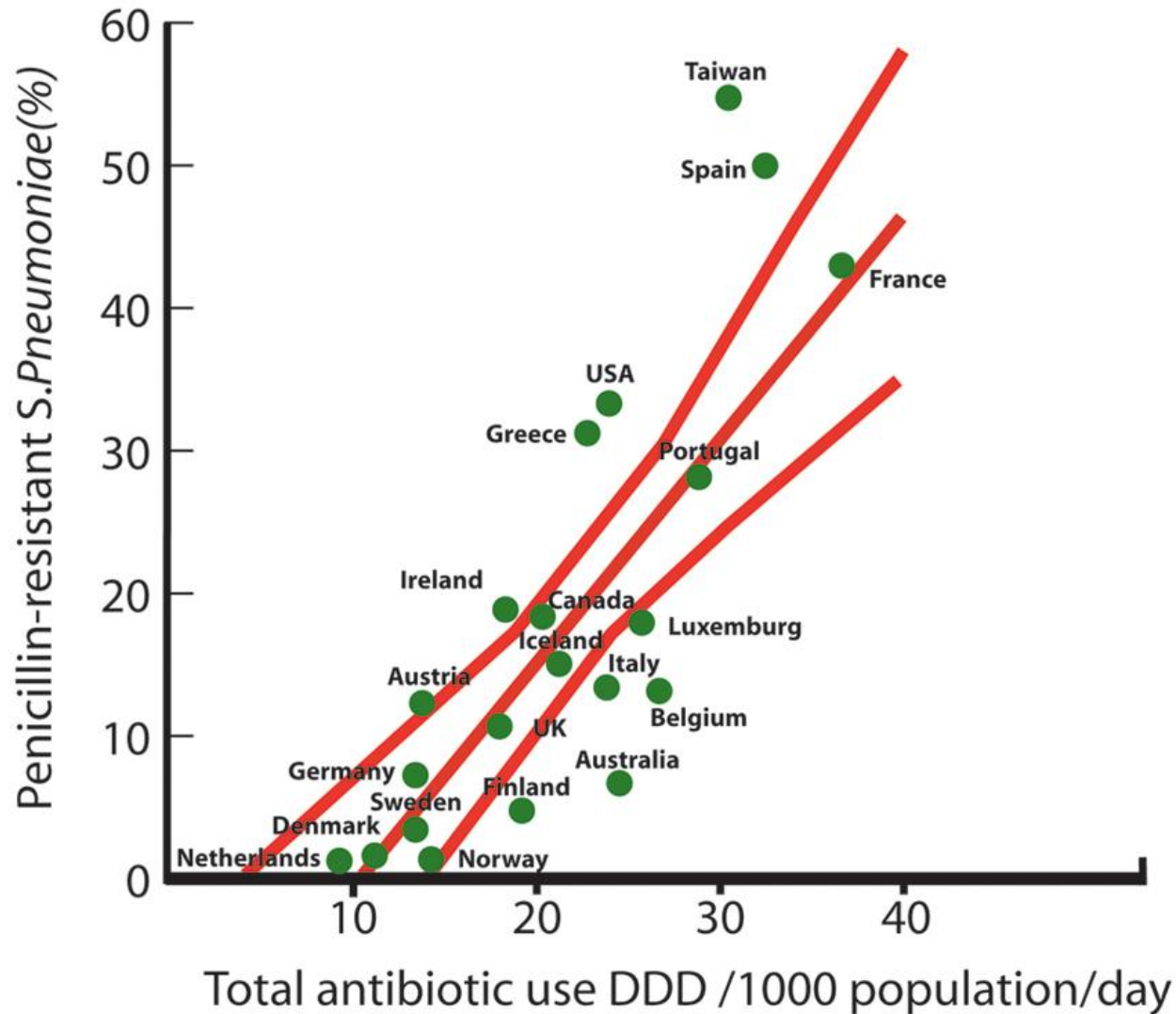


Alexander Flemming

*The time may come when penicillin can be bought by anyone in the shops. Then there is the danger that the ignorant man may easily underdose himself **and by exposing his microbes to non-lethal quantities of the drug make them resistant.***



***“The more we use them, the more we lose them...”***

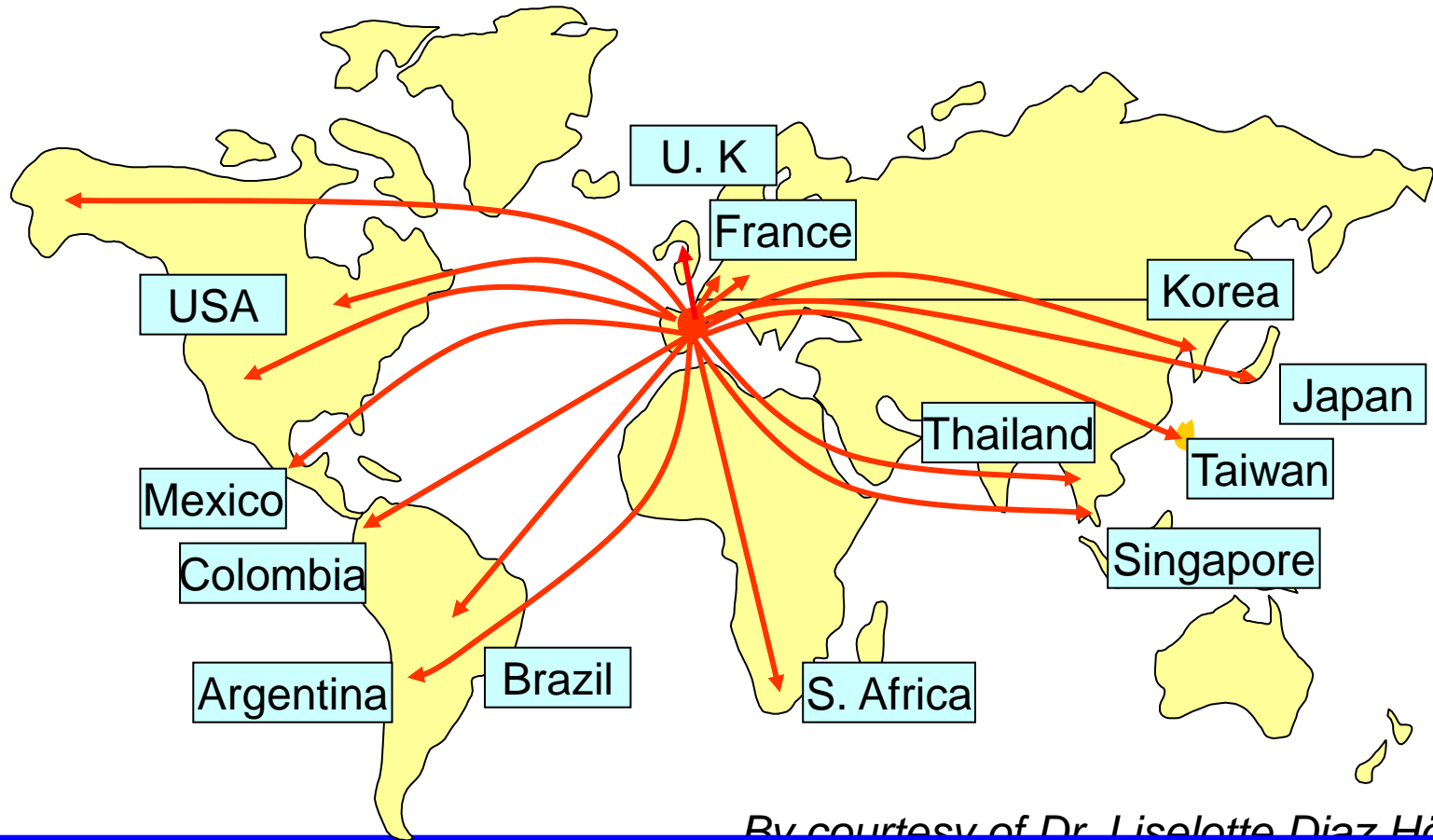




# A global problem!



## Worldwide spread of the 23F clone of penicillin resistant pneumococci



*By courtesy of Dr. Liselotte Diaz Högborg*



# The microbial challenge - An emerging threat to human health: JP AMR



## Main facts:

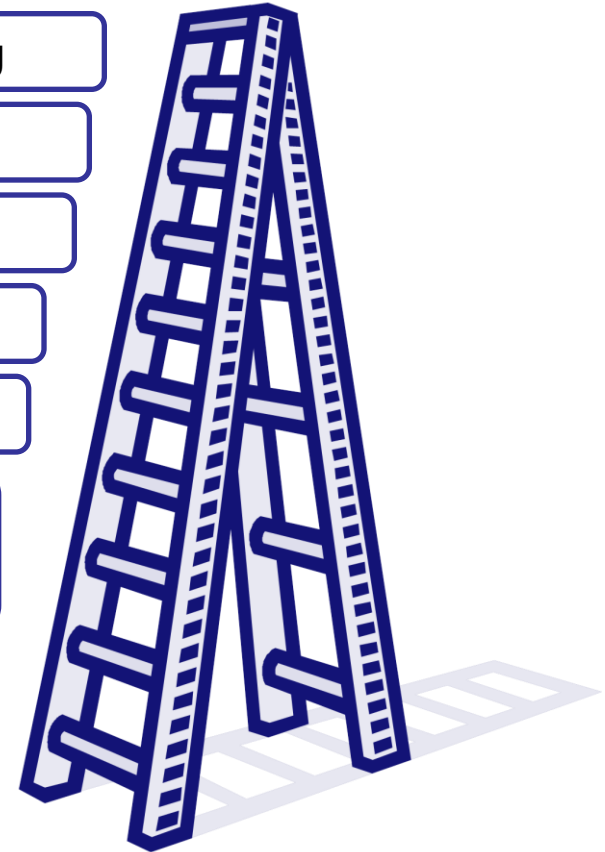
- **Misuse** of Antibiotics
- Increasing number of **resistant** strains
- Great societal **costs**
- **Less drugs** being produced
- **Global** problem

## Challenges:

- **Medical** challenges
- **Economic** and **societal** challenges
- **Industrial** challenges



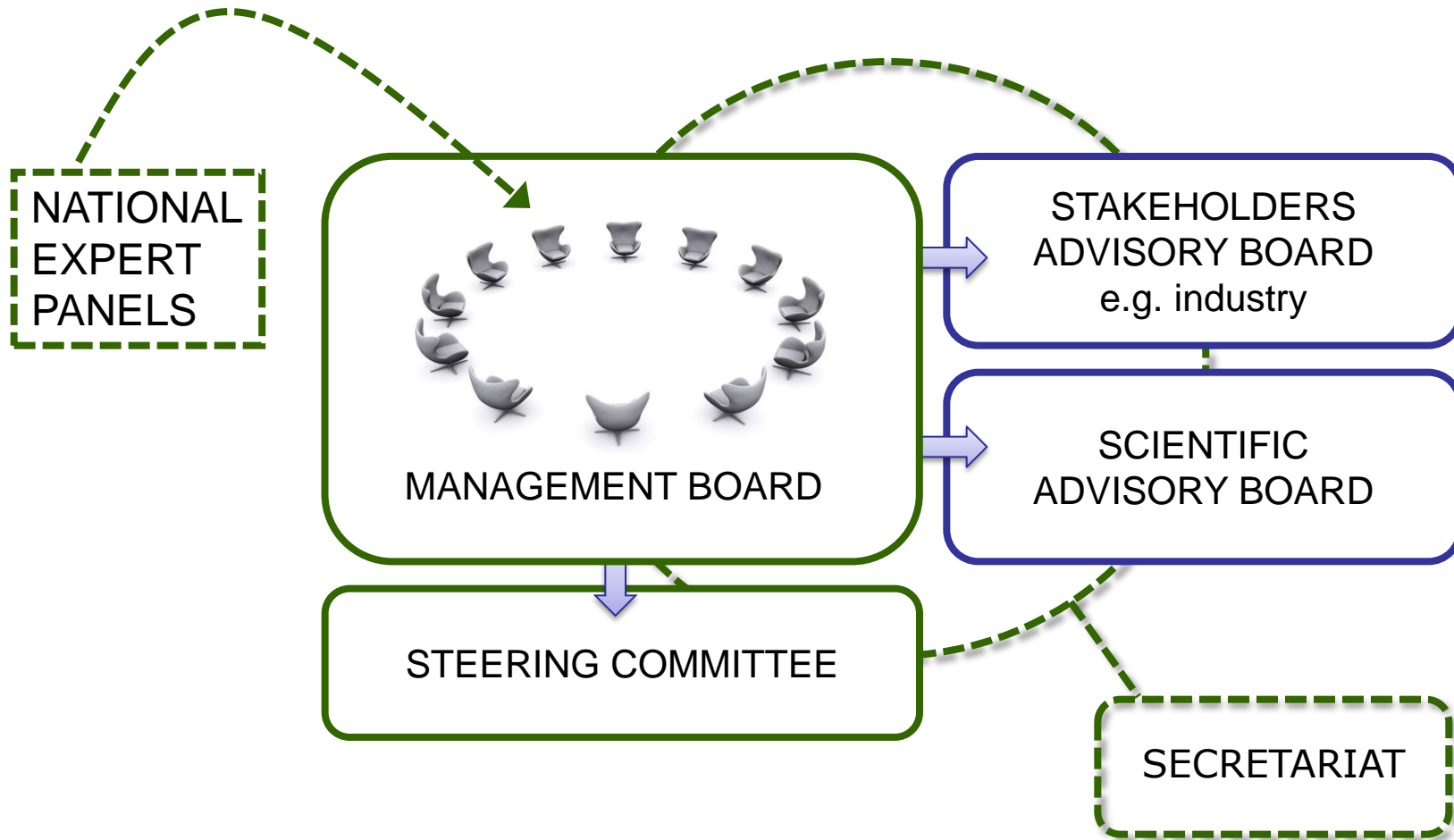
# Implementation of JPI AMR







# Governance Structure





# JP AMR Road map



## **Kick-off in Brussels in October 2010**

Decision to nominate members for a Management Board

## **First Management Board meeting in Brussels on 9 December 2010**

Management Board formed: ***Now 18 nations participating***

Czech Republic, Denmark, Finland, France, Greece, Italy, Norway, Poland, Romania, Spain, Sweden, Switzerland, Turkey, United Kingdom + Germany + Belgium + the Netherlands + Israel

MB Chair elected: ***Professor Mats Ulfendahl***

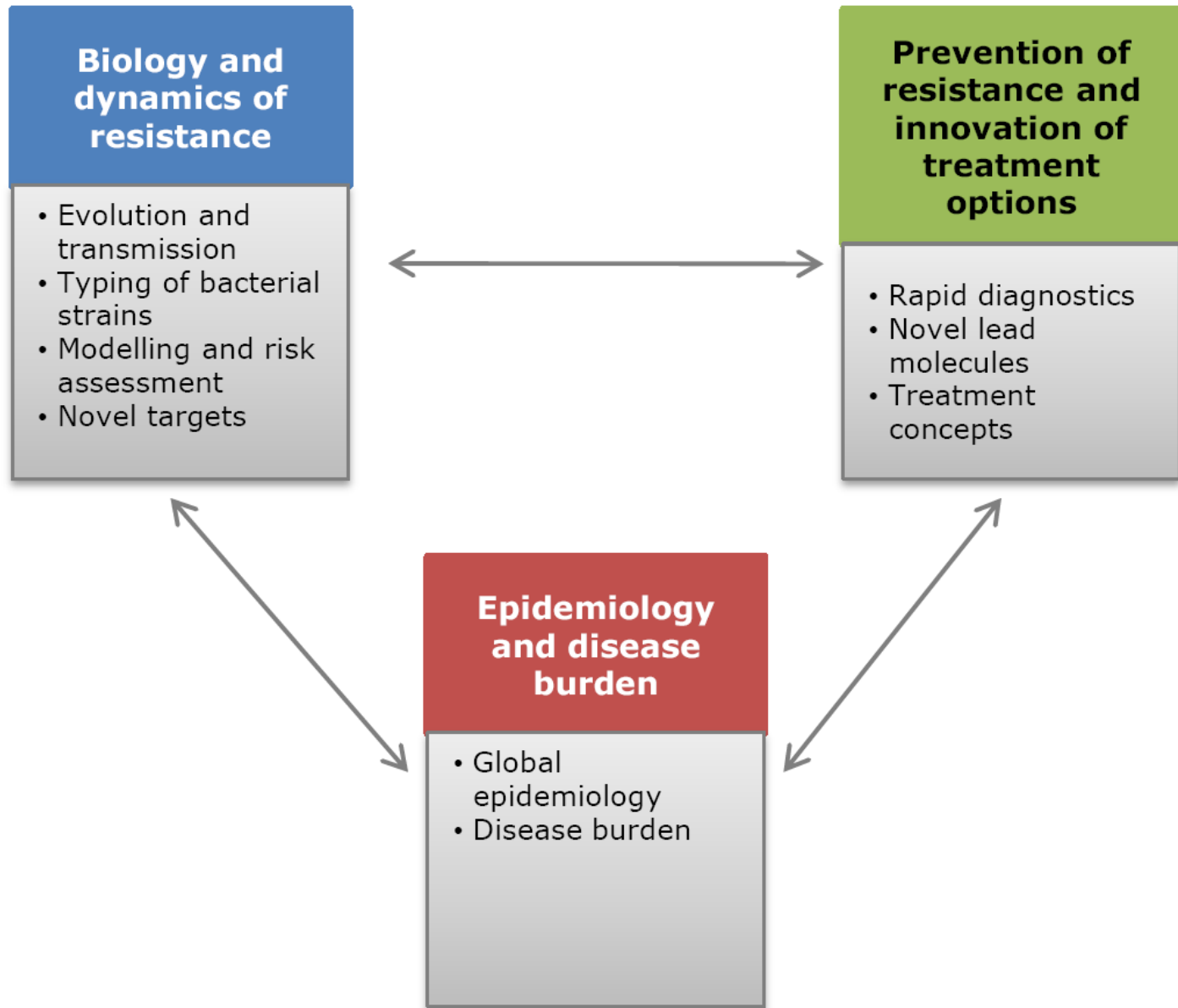
Secretary General, Swedish Research Council



# JP AMR Road map



- Scope of JPI AMR decided
- Steering Committee formed
- Terms of Reference adopted
- Vision document adopted
- First mapping exercise completed
- Scientific workshop in preparation for the Strategic Research Agenda
- Scientific Advisory Board appointed
- Setting up National Expert Panels
- Stakeholders Advisory Board identified
- Scientific Advisory Board Meetings
- Proposal for coordinating and support action (CSA) March, 20th 2012





## Biology and dynamics of resistance

- Evolution and transmission
- Typing of bacterial strains
- Modelling and risk assessment
- Novel targets

**Biology and dynamics of resistance**  
*The aim is to understand the underlying biology of those factors most important in influencing the emergence and spread of resistant infectious microorganisms within and between humans as well as from animals and the environment.*

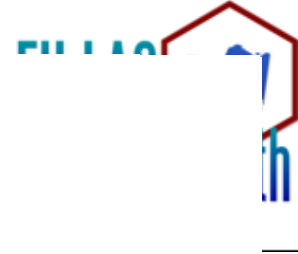


# Prevention of resistance and innovation of treatment options

*To reduce the need for antibiotics through prevention, refined and alternative treatments, and rapid diagnostics of pathogens and resistance patterns.*

**Prevention of resistance and innovation of treatment options**

- Rapid diagnostics
- Novel lead molecules
- Treatment concepts



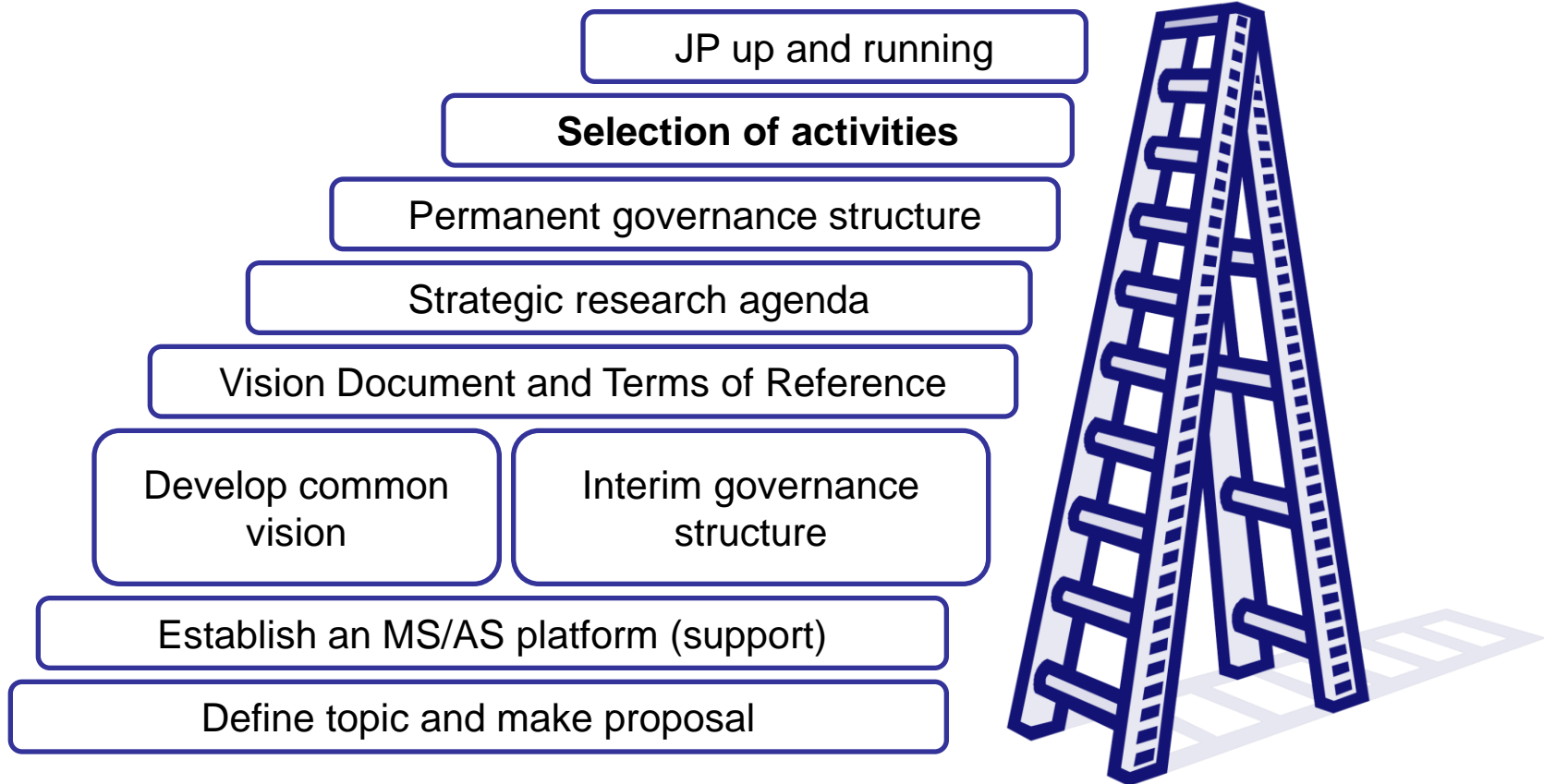
## **Epidemiology and disease burden**

*To increase knowledge of the global prevalence and spread of different infectious microorganisms, and to estimate the financial and societal burden of disease.*





# Implementation of JPI AMR

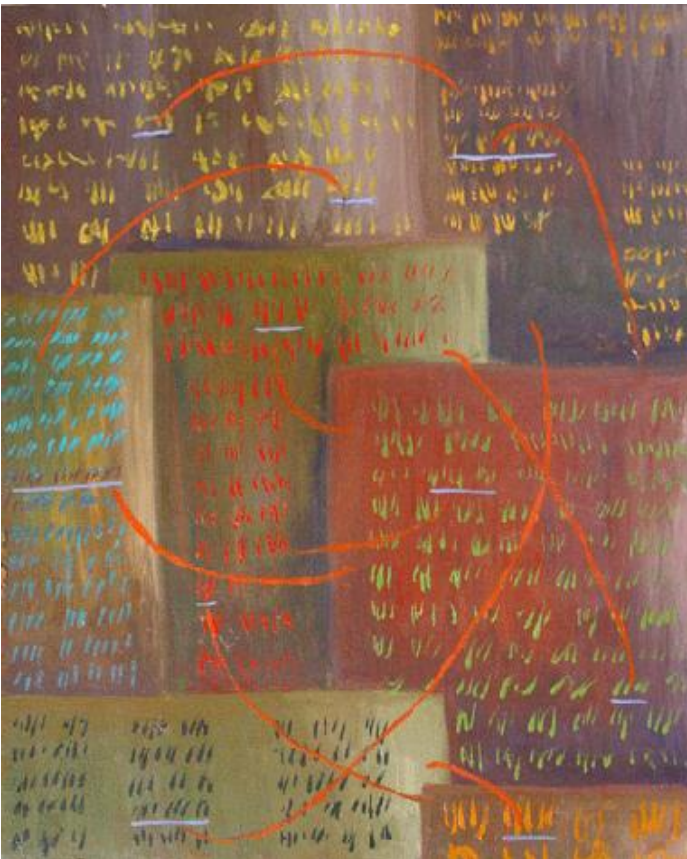






***A pilot call or not a pilot call...?***





Bel Llodrà Riera, Hyperlinks

**Thank you for your  
attention!**