

# Early detection and treatment of TB in Europe

May 2016 – May 2019

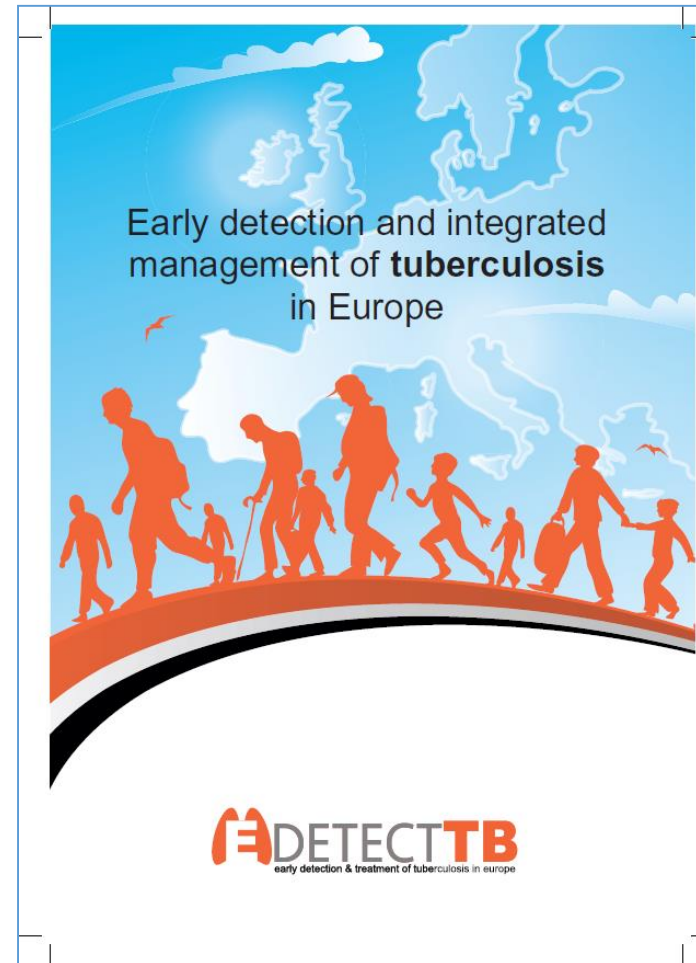
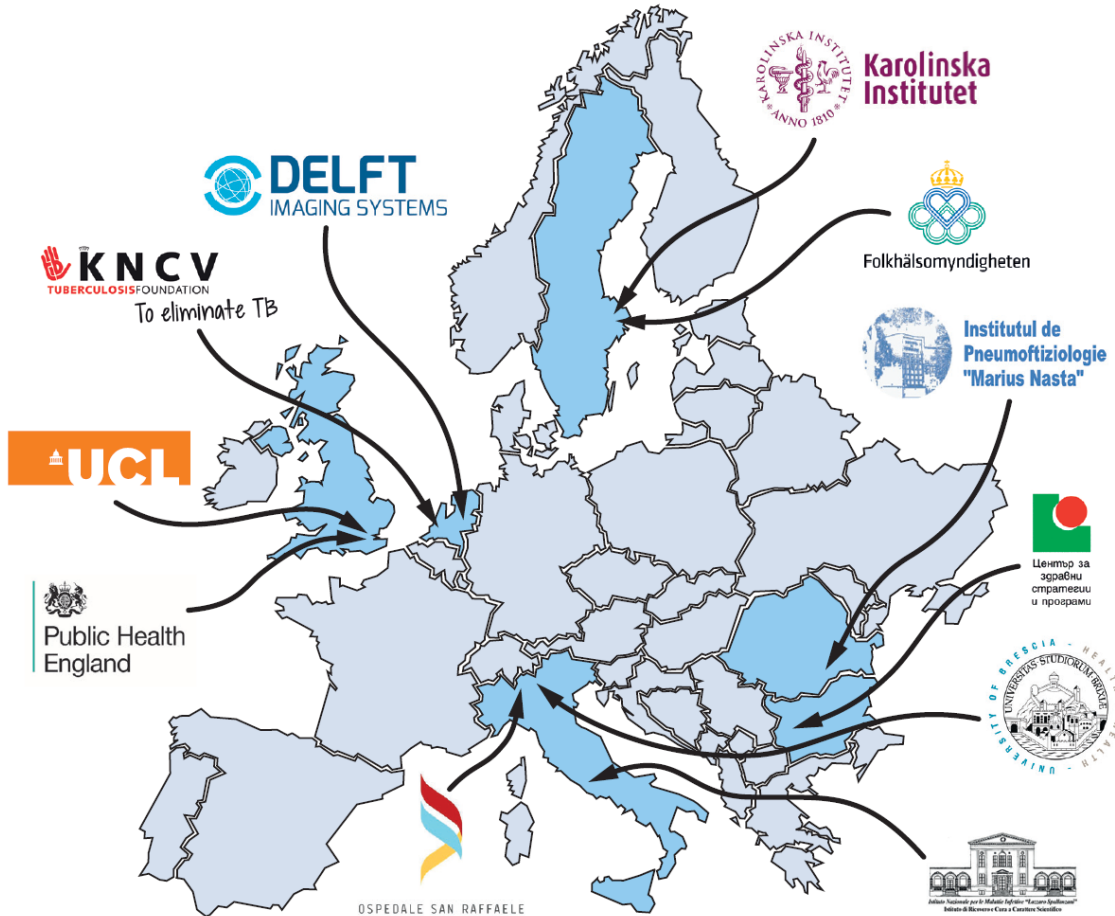
**Presentation at the EU HIV/AIDS, Hepatitis and Tuberculosis  
Civil Society Forum Luxembourg  
December 19<sup>th</sup> 2017**

**Gerard de Vries, MD MSc PhD**  
***Consultant KNCV Tuberculosis Foundation***  
***National Coordinator TB Control The Netherlands, RIVM-Cib***  
***gerard.devries@kncvtbc.org***

# Outline

1. Background and context
2. Objectives
3. Methods
4. Work package 4 (outreach activities in Eastern Europe)
5. Expected outcomes
6. Tools planned

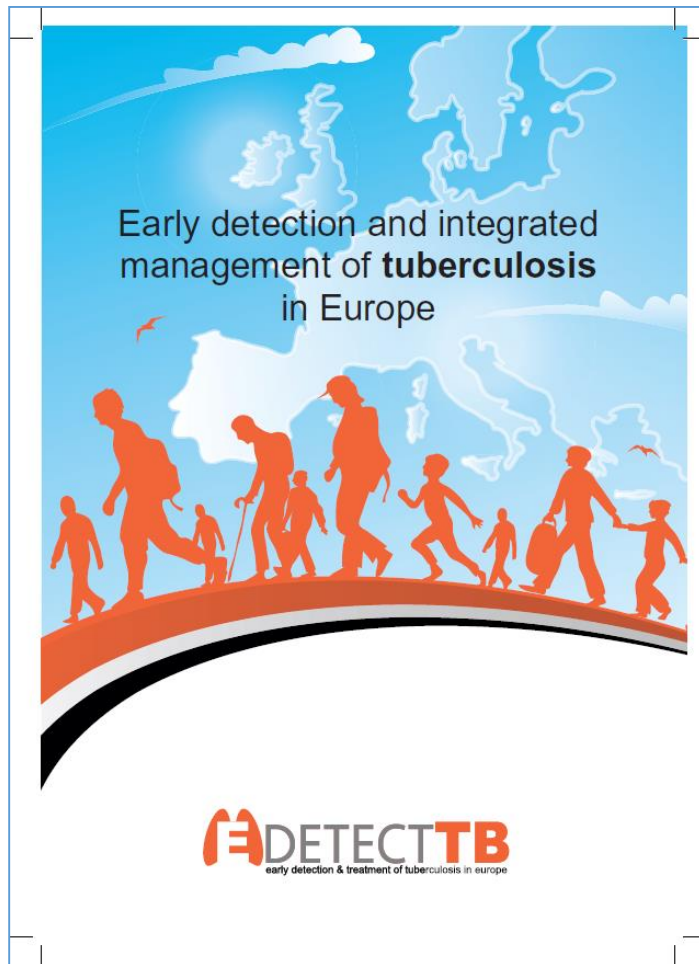
## The E-DETECT TB consortium



In collaboration with the 'Find & Treat' programme



# What is E-DETECT TB about?



**“A practical programme of translational research”**

**It brings partners together, share their experiences and exploit new technologies and advances in knowledge to TB control.**

# Vision, goal and targets 2035

**Vision:** A world free of TB

*Zero TB deaths, Zero TB disease, and Zero TB suffering*

**Goal:** End the Global TB epidemic (<10 cases per 100,000)

**Target 1**



**95% reduction in deaths due to TB (compared with 2015)**

**Target 2**



**90% reduction in TB incidence rate (compared with 2015)**

**Target 3**



**No affected families face catastrophic costs due to TB**

# Background TB in EU/EEA

1. High burden of 60,195 cases reported in 30 EU/EEA countries in 2016
  - Slow decline - 3.8% per year in the last five years
  - 4.1% multidrug resistant (MDR) TB
  - Romania accounted for 25% of all cases
  
2. Vulnerable groups at risk for TB
  - Migrants
  - Prisoners
  - People using illicit drugs
  - Homeless people
  - People living with HIV

# Objectives

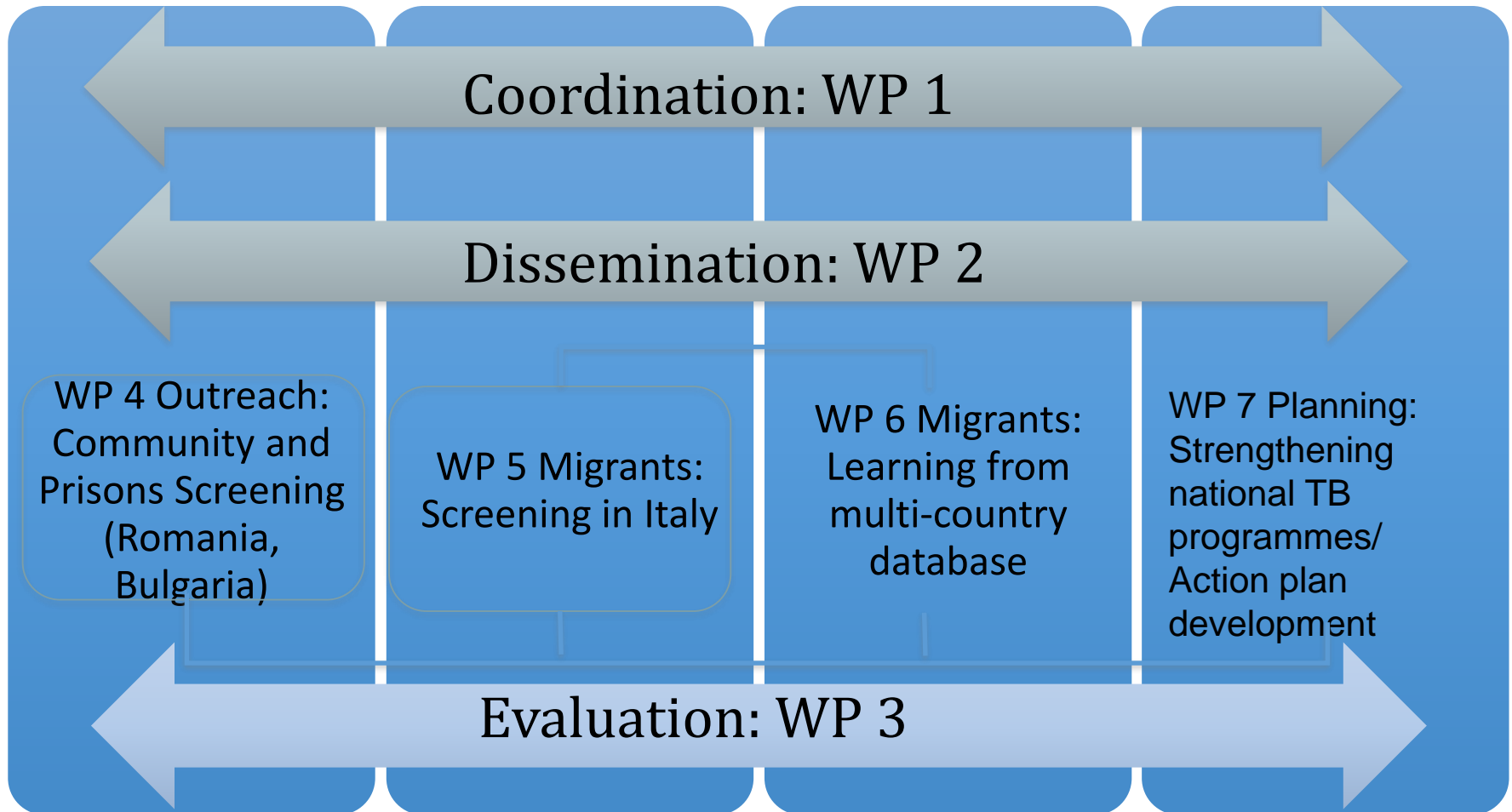
1. To ensure **early diagnosis** in vulnerable populations- defined as **homeless individuals, Roma, those with a history of drug use** within the community, and **prisoners-** in two high incidence European countries (Romania and Bulgaria). (WP4)
2. To strengthen **care integration using an outreach strategy within the same vulnerable populations in Romania.** (WP4)

# Objectives

3. To evaluate approaches for **migrant TB detection** and improve European **cross-border management** by:
  - a) **early detection and care integration** in individuals arriving via the Mediterranean Sea in Italy using **innovative molecular testing** at immigration reception centres and **novel latent TB tests**. (WP5)
  - b) ensuring **cross-border** transfer of information and referral of patients. (WP5)
  - c) collating, analysing and evaluating multi-country data on TB and LTBI screening in **migrants** to low-incidence countries to inform effective strategies. (WP6)
4. To support the development of **action plans** in Member States by adapting best practice approaches. (WP7)

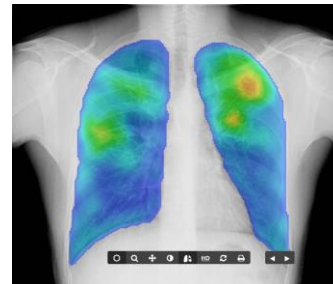
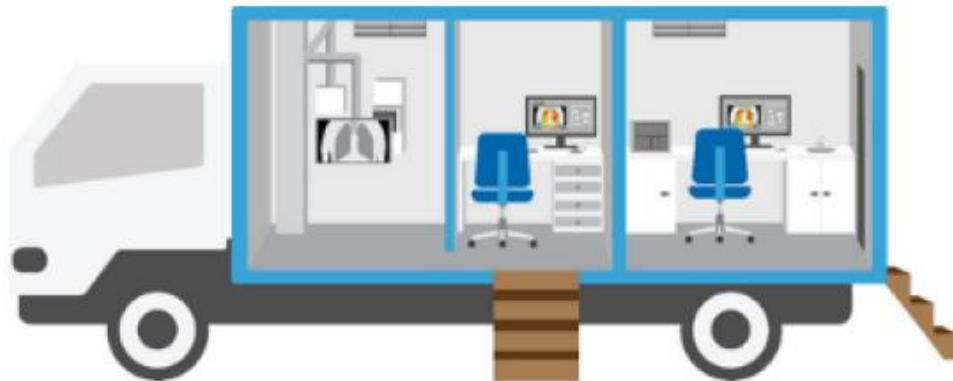


# Methods: Work packages



## Work package 4

- **Project in Romania (and pilot in Bulgaria).** Note: built on previous experience in Rotterdam and London (Find & Treat project)
- **Screening with a mobile van/unit**
  - with digital x-ray and computer automated reading (CAD4TB)
  - and molecular tests (Xpert MTB/RIF)



## Work package 4 – Mobile van



## Work package 4 – Training

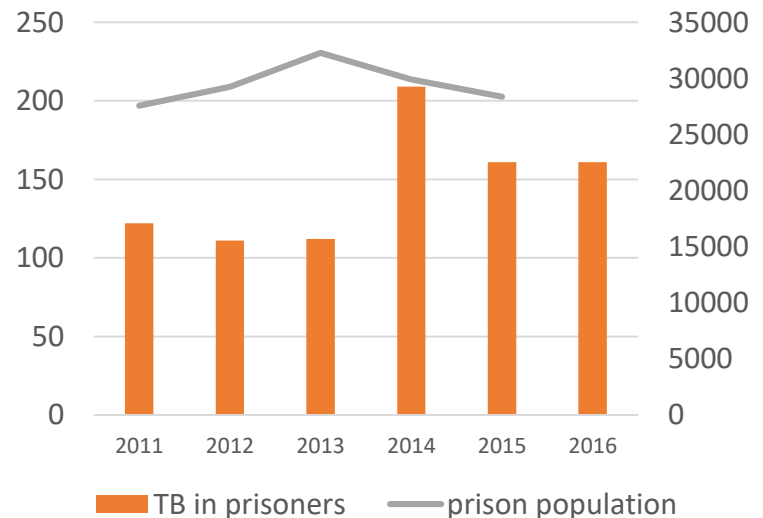
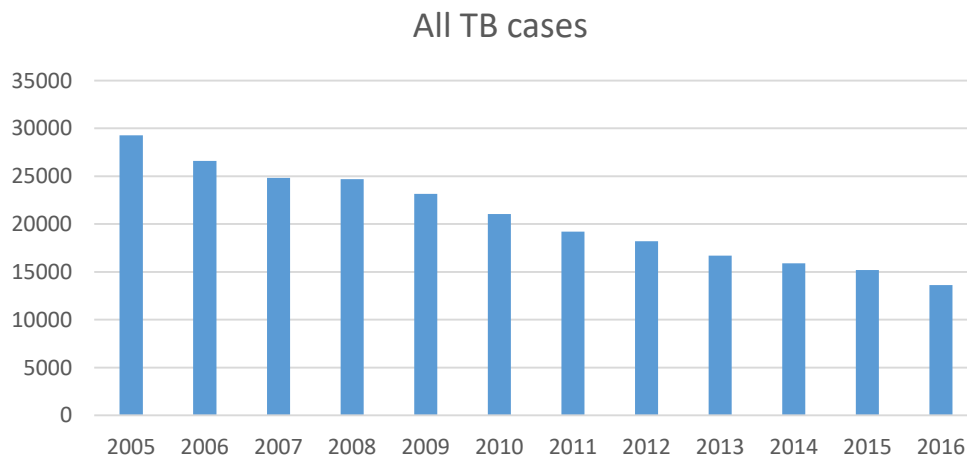
- Pulmonologists  
May 2017



- Field visit  
(London)  
September 2017

# Work package 4: Target populations

- Prisoners (those with TB: 2% die; 4% default treatment)
- People using illicit drugs (those with TB: 16% die; 20% default treatment; 86% is HIV co-infected)
- Homeless people (those with TB: 20% die; 24% default treatment)
- Roma



## Work package 4: Integrated care

- **One-stop ‘shop’**
  - Accompanied referral (with peer support)
  - Treatment by the National TB Programme
  - Treatment support (with directly or video observed treatment; DOT - VOT)
  - Psychosocial support
    - Housing
    - Addiction
    - Mental health
    - Destitution/poverty
    - Criminal justice
  - Collaboration with partners

# Work package 4: Collaboration

- **Collaboration**

- with healthcare and other providers (Prison authorities ANP, ARAS, Caroussel, Save the Children, etc.)
- with communities (Roma population)
- with peers

- **Opportunities for integrated testing and care coordination (move from Mobile X-ray Unit (MXU) to Mobile Health Unit (MHU))**

- Blood-born viruses (HIV/Hepatitis)
- Addiction → Recovery

# Expected outcome

## **WP4: Outreach activity in Romania and Bulgaria**

- Number of active TB cases detected using MXU in Romania and Bulgaria
- Number of patients treated in Romania and Bulgaria

## **WP5: Implement and evaluate migrant TB detection in Italy**

- Number of latent and active TB cases detected in migrants in Italy
- Linkage to care among detected migrants in Italy

## **WP6: Creating a database listing active and latent TB cases**

- Multi-country data platforms for (latent) TB established and analysed

## **WP7: Strengthening national TB programmes**

- A TB strategy prioritisation, action and support plan developed



# Tools planned

- **Questionnaires**

- WP4: mobile screening data, supported referral and clinical outcome and WP5: latent and active TB

- **Diagnostics**

- ULTRA (test), OMNI (portable platform), QFT plus, Teleradiology + CAD4TB

- **Databases**

- WP4: digital x-ray, screening data, clinical data, microbiology results, outcome data
- WP5 & 6: Latent TB screening database, Active TB screening database

- **Trainings**

- WP4: MXU training, WP5: screening training, WP2: overall dissemination training package

- **Reports and Survey**

- Interim and final reports, evaluation report (including cost-effectiveness), country specific reports, peer reviewed papers from each WP and survey in WP7

# Thank you for listening!



UNIVERSITÀ DEGLI STUDI DI BRESCIA



Folkhälsomyndigheten



Министерство на здравеопазването

