

# IMAGINE

## OVERVIEW:

IMAGINE is a European initiative to strengthen infection prevention and control (IPC) and promote the rational use of antibiotics (AMS) in long-term care facilities across 8 pilot countries:

 Denmark |  Spain |  Greece |  Hungary |  Lithuania |  Poland |  Slovenia |  Slovakia

IMPROVING ANTIBIOTIC USE  
IN NURSING HOMES  
THROUGH INFECTION  
PREVENTION AND  
RESPONSIBLE STEWARDSHIP

## EXECUTIVE SUMMARY – IMAGINE PROJECT

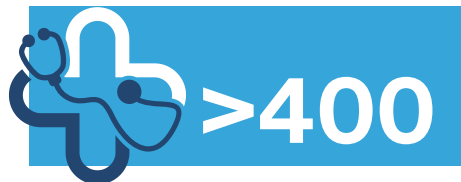
*“Better care isn’t more expensive — it’s smarter.”*

Infection prevention and responsible antibiotic use reduce patient suffering, optimize public resources, and strengthen Europe’s health resilience.

## OVERALL IMPLEMENTATION RESULTS



Participating  
nursing homes



Health Care  
Professionals



Represented  
countries



## MULTIFACETED INTERVENTION

The IMAGINE project analysed over three years whether a multifaceted intervention **improved infection prevention, reduced UTIs, and optimised antibiotic use in care homes**

### IMAGINE KEY RESULTS

**↓ 27%**  
**UTIs**

**544,000**  
CASES/YEAR  
PREVENTED

**↓ 13%**  
INAPPROPRIATE  
ANTIBIOTIC USE



**OVER  
400**



NURSING,  
MEDICAL, AND  
CARE  
PROFESSIONALS  
INVOLVED

**€150 M**  
ANNUAL NET  
SAVINGS



**€1 = €4**  
SAVED

**↑ 59%**  
OF IPC  
MEASURES  
IMPROVED

IN NURSING  
HOMES



# IMAGINE

## OVERALL IMPLEMENTATION RESULTS



Participating  
nursing homes



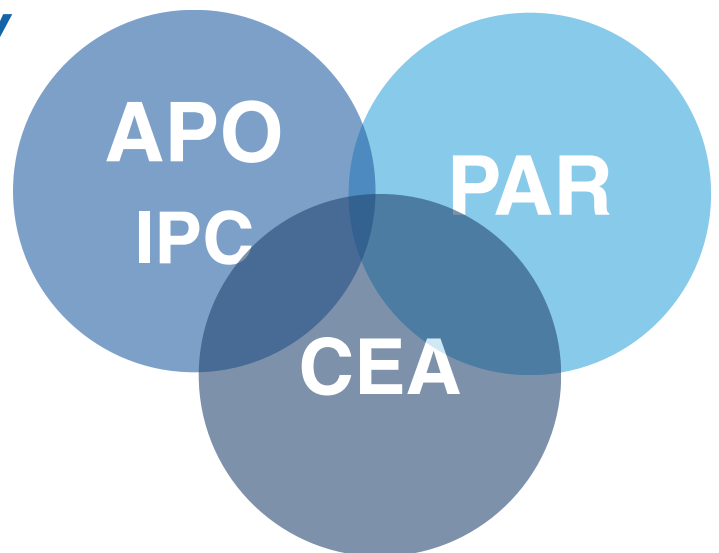
Health Care  
Professionals



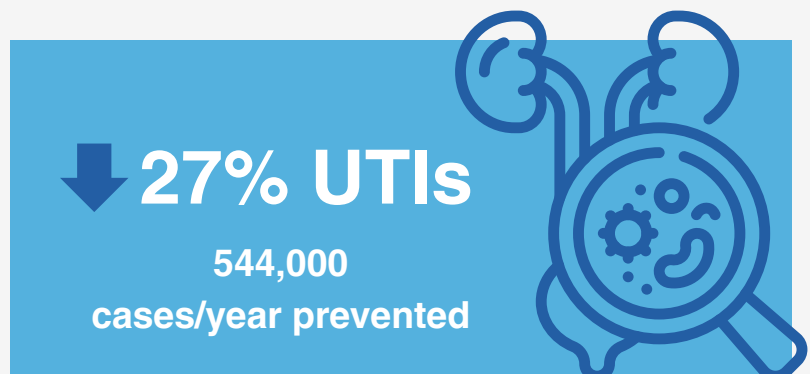
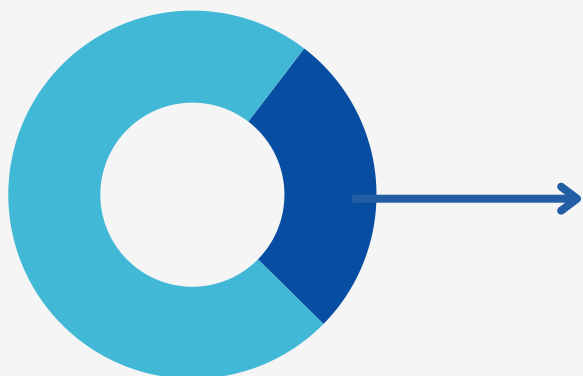
Represented  
countries

## INNOVATIVE METHODOLOGY

The IMAGINE Project uses an innovative, multi-layered methodology: **healthcare staff co-design best practices through Participatory Action Research (PAR)**, two audits measure impact on infection prevention and antibiotic use, and a **cost-effectiveness analysis (CEA)** estimates costs and savings, ensuring measurable, cost-effective improvements

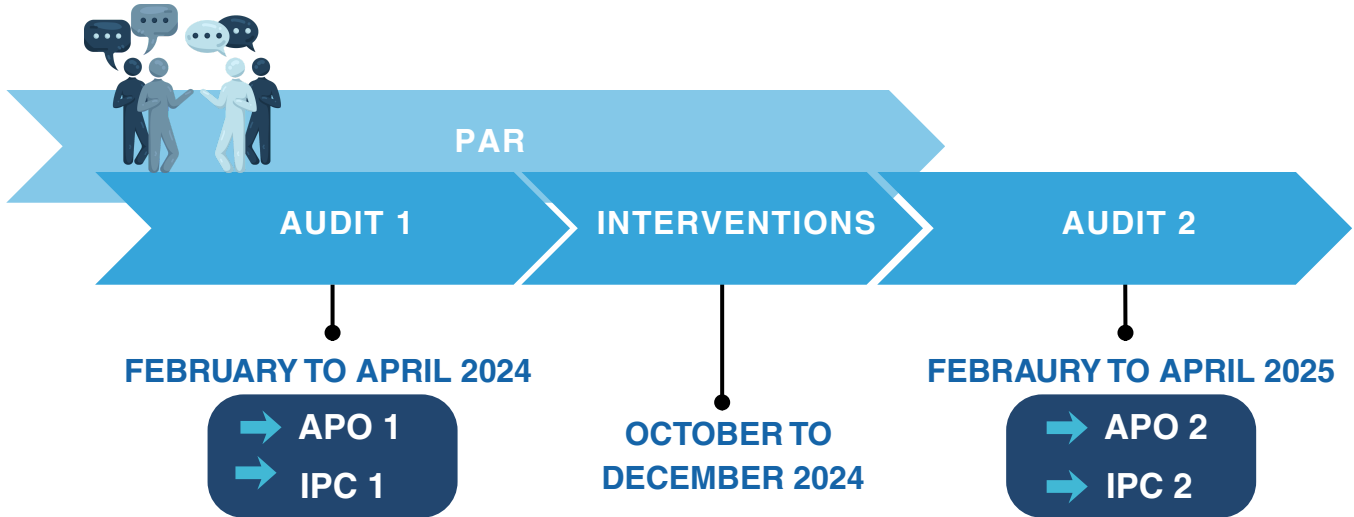


## REDUCTION IN ANTIBIOTIC-TREATED URINARY INFECTIONS

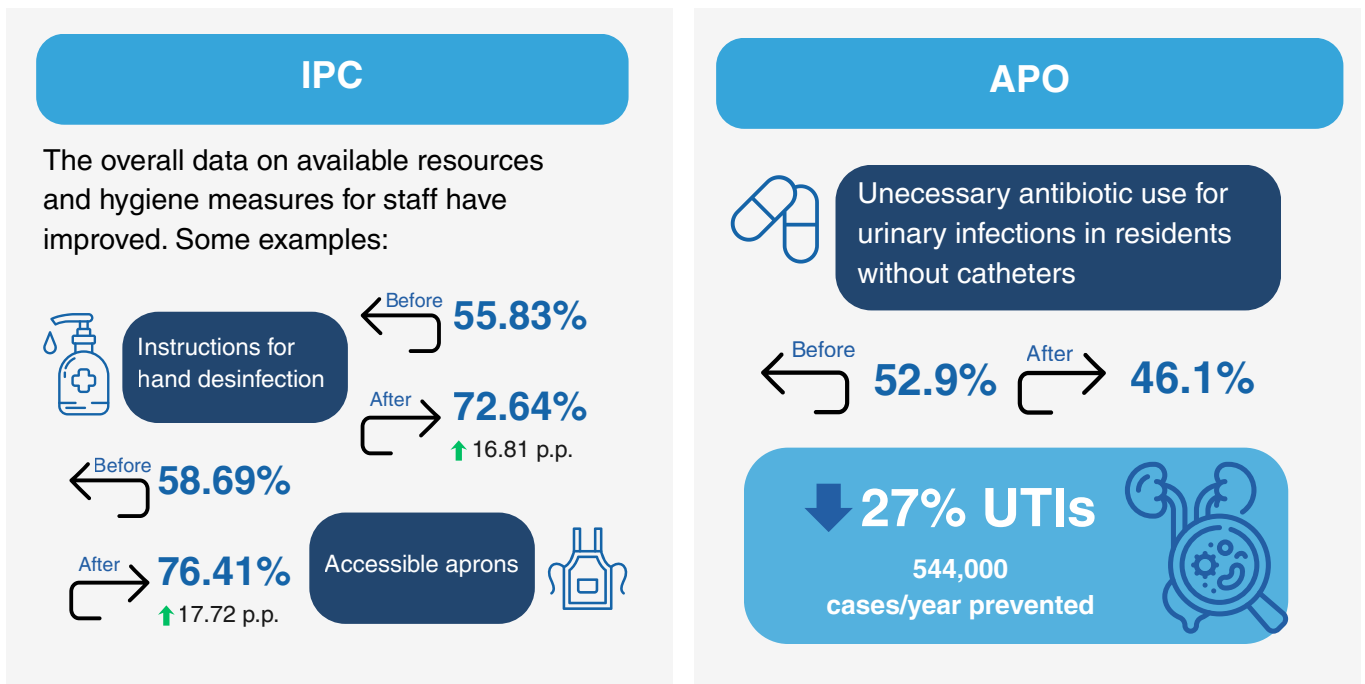


# IMAGINE

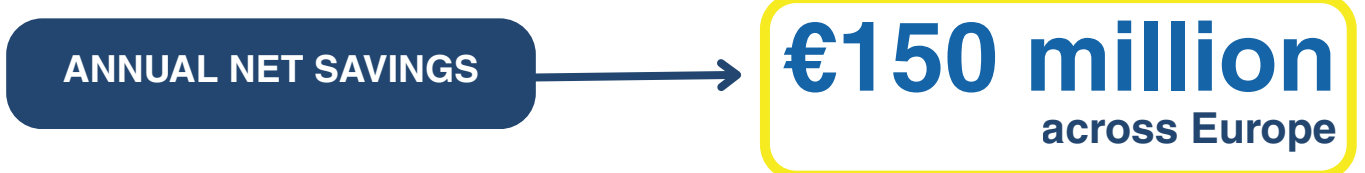
PARTICIPATORY ACTION RESEARCH STARTED IN JANUARY 2023



## MAIN FIGURES



## ECONOMIC EVIDENCE



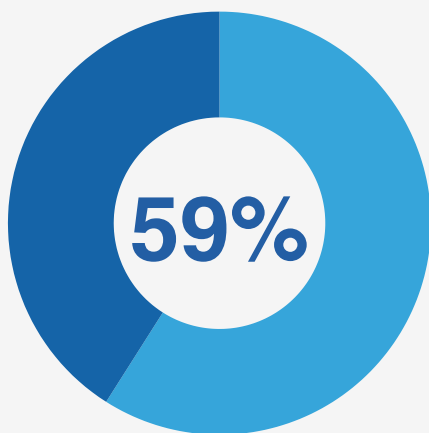
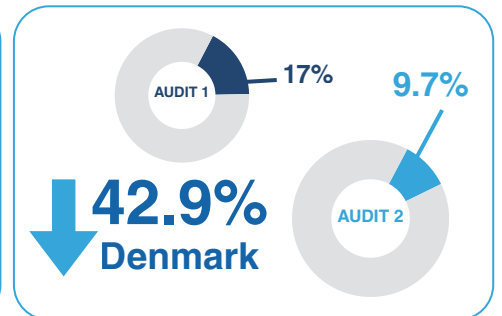
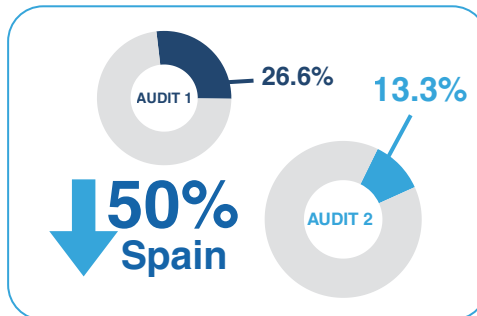
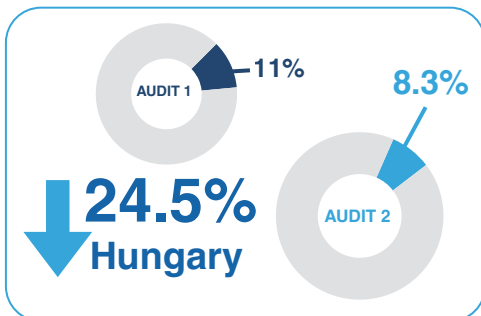
## CLINICAL RESULTS: Fewer infections. Better health



# 27%

Reduction in urinary tract infections after intervention

### STATISTICALLY SIGNIFICANT REDUCTIONS



**Of IPC measures improved in nursing homes**

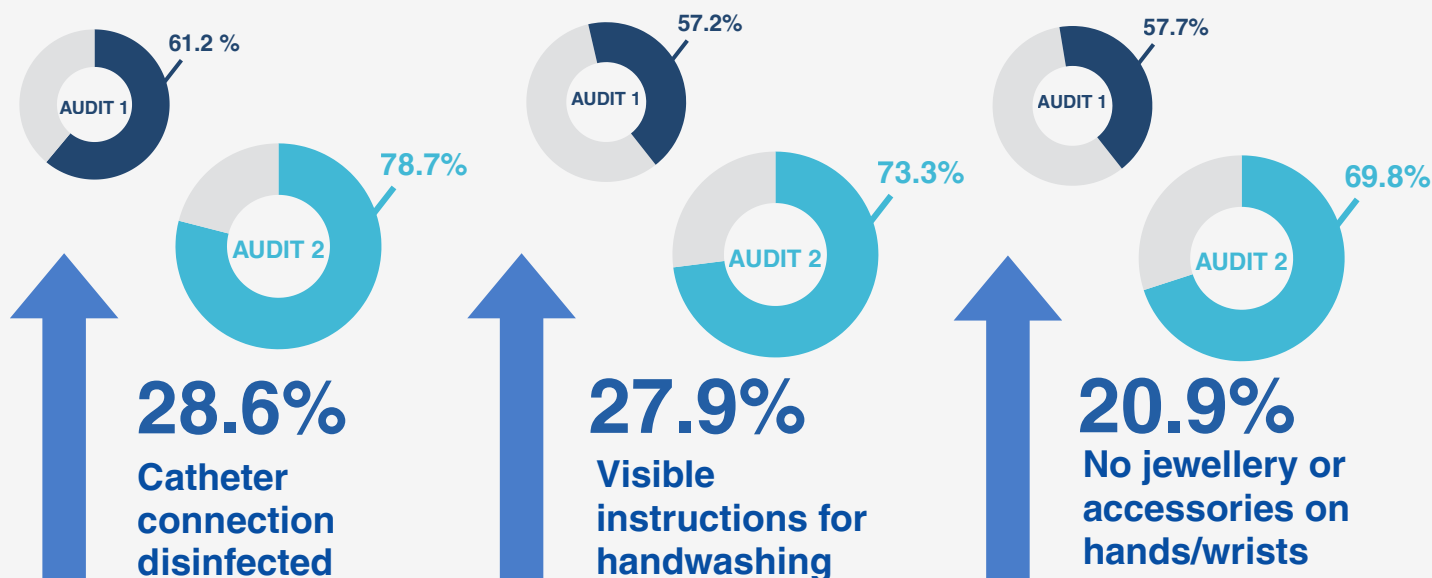
# 13%

Reduction in inappropriate prescriptions

## HYGIENE AND CARE PRACTICES

Training to prevent infections

### IMPROVEMENT OBSERVED



Relative improvement in hand hygiene before catheter:

**4.7%**

Relative improvement in the use of a new apron for procedure

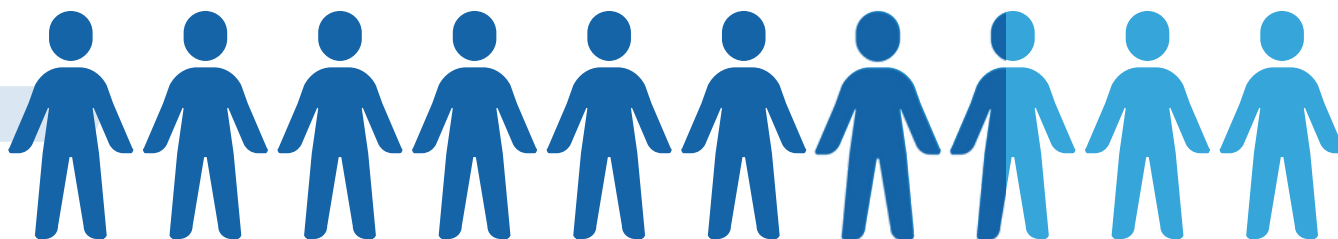
**67.5%**



# IMAGINE

## EUROPEAN SCALING: Estimated Impact EU27

**TOTAL IMPLEMENTATION COST**  
**€50.8 million**



**2.011.517**

ANNUAL UTI CASES  
TREATED IN THE EU

ESTIMATED



**544.098**

FEWER CASES AFTER  
INTERVENTION

**TOTAL ANNUAL SAVINGS**

**€150 million**

**€1 = €4**

**SAVED**

