



# **ECDC and modelling of infectious diseases**

Edinburgh, 18/5 – 2007

Tommi Asikainen

European Centre for Disease Prevention and Control  
Scientific Advice Unit



# Overview

- ECDC
  - "New guy in town"
  - Structure
- Modelling activities at ECDC
- Challenges of the 21st century





# History of ECDC

- Started up March 2005
- Located in Stockholm





# Funding

Funded by the European Commission EC

- Totally independent from EC concerning:
  - Technical advice
  - Scientific advice





## Annual budget

**2005 = 4 800 000 €**

**2006 = 15 700 000 €**





## Development of ECDC

- Currently about 110 employees
- Fully operational 2010
  - 300 employees
  - Maybe even non infectious "diseases"
- "Spider on the web"





## ECDC cooperation

- 30 European countries
- WHO
- United Nations
- Asian CDC
- US CDC



## ECDC past / current main activities

- Pandemic influenza preparedness
  - Country visits
- HIV
  - Country visits
- TB





## **Director and Director's Cabinet**

Governance, External Relations, Country Cooperations, Communications

**Scientific  
Advice**

**Surveillance &  
Communication**

**Preparedness &  
Response**

**Administrative  
Services**

**Influenza**

**Tuberculosis**

**Food- & waterborne diseases**

**Other diseases of environmental & zoonotic origin**

**Vaccine preventable diseases & invasive bacterial infections**

**HIV, STI & blood-borne viruses**

**Antimicrobial resistance & nosocomial infections**



## Modelling activities

- Participate on workshops / meetings
- Keeping track of scientific advances
- Cooperation with research groups





## Modelling activities

Promote the building of a European wide network of modellers in different countries.





## ”Own” modelling

- Questions from Commission / Advisory Forum
  - Build a working group
- Call for tender
  - Research funded by ECDC





# ECDC modelling priorities

- Modelling advice to:
  - "In-house" ECDC
  - EU Agencies
  - European Commission
    - Opinion on proposals
    - Suggestion of proposals
    - Evaluators of proposals

*Ex: Incidence estimation of HIV*



## Modelling continued

- Identify areas with need for more research
  - Call for tender
    - Estimation of parameters
    - Theoretical concepts

*Ex: Modelling of TB contact tracing and screening*

- No duplication of research





# Challenges of the 21st Century

- Antimicrobial resistance
  - MRSA
  - Nosomial infections
- HIV
  - Incidence estimation
- Tuberculosis
  - XTB
- Influenza
  - Mortality due to influenza?



# Challenges of the 21st Century

- Vaccine preventable diseases – new vaccines
  - HPV
  - Vaccination programs
- Climate change
  - Malaria, cholera
- Use of surveillance data





# Thank you!

