

Overview of Luxembourg's biomedical sector

Patrizia Luchetta Ministry of the Economy and Foreign Trade luxembourg for business BEFORE THE GOVERNMENT'S LIFE SCIENCE INITIATIVE - INDIVIDUAL PUBLIC RESEARCH ACTORS









• Public Research Centre for Health



•Gabriel Lippmann Public Research Centre with 3 major axes: Sustainable management of natural resources (EVA) (including nutrition) Innovative materials technology



• Henri Tudor Public Research Centre Health Care Technologies - SANTEC

THE 2008 INITIATIVE



The Ministry of the Economy and Foreign Trade, The Ministry of Research and Higher Education & The Ministry of Health decide to launch a 5 years action plan for Health Sciences and Technologies

Why?

- Take an active role to tackle future healthcare challenges sustainability of healthcare services
- Diversify the economy by developing knowledge-based, niches
- Create opportunities for Luxembourg's existing sectors

AFTER 2008: DEVELOP A CENTRE OF EXCELLENCE IN MOLECULAR DIAGNOSTICS

Key Infrastructures: Integrated BioBank of Luxembourg (IBBL)

Luxembourg Centre for Systems Biomedicine (LCSB)

Demonstration Project:

Lung Cancer project: Identification and clinical validation of prognostic proteomic biomarkers

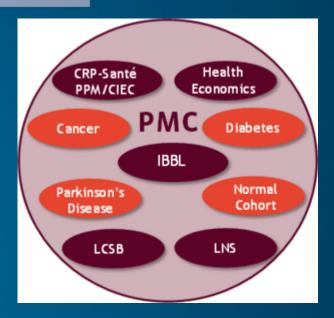








A COMMON PROJECT IS TAKING SHAPE



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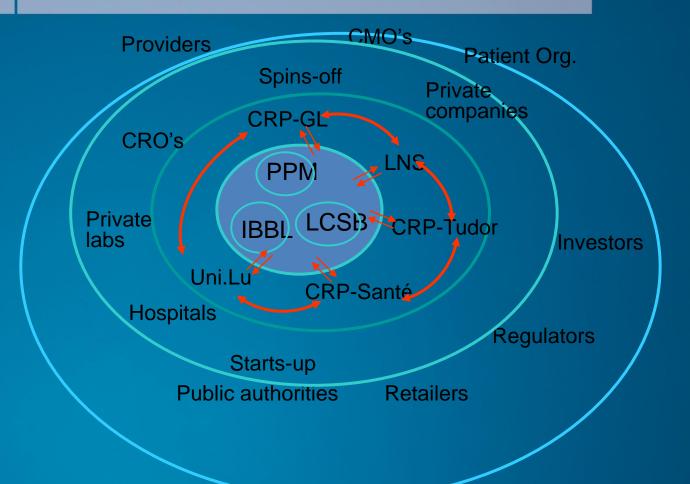
- Cancer (Breast, colon and lung)
- Neurodegenrative diseases, especially Parkinson
- Diabetes and life-style related diseases
- Normal population cohort

INCLUDING PRIVATE AND COMMERCIAL ACTORS AS WELL





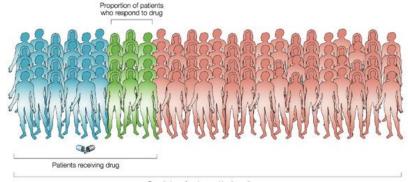
CONNECTING DOTS / CONNECTING ACTORS



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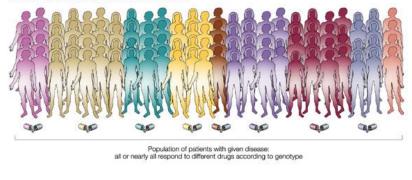
WHY PERSONALIZED MEDICINE ... WHY LUXEMBOURG?

a Current state of drug development research



Population of patients with given disease

b Ideal future objective of drug development research



Providing each patient with the right drug, at the right dose, at the right time, at the right cost.

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Nature Reviews | Drug Discovery

Better patient stratification needs better diagnostics!

WHY PERSONALIZED MEDICINE ... WHY LUXEMBOURG CONTINUED?

Better diagnostics needs an integrated, centralized approach

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Collecting, storing, managing & analyzing data; Collecting, transporting, storing & analyzing samples; Validating research results; Communicating diagnostics results;

There is a need for standard operating procedures; for data protection; for appropriate IT and communication infrastructure; for specialized logistics activity...

REGULATION / STANDARDS AS A COMPETITIVE ADVANTAGE



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- We have caught up quickly in the ICT sector, where we compete with the best
- A window of opportunity is currently open in the biomedical sector!

The right man (or woman ©) is the one who seizes the moment Johann Wolfgang von Goethe

Thank you for your attention!



Thanks to Luxinnovation for sharing slides