

Cellen Bestuderen met behulp van een Gegevensbank Systeem

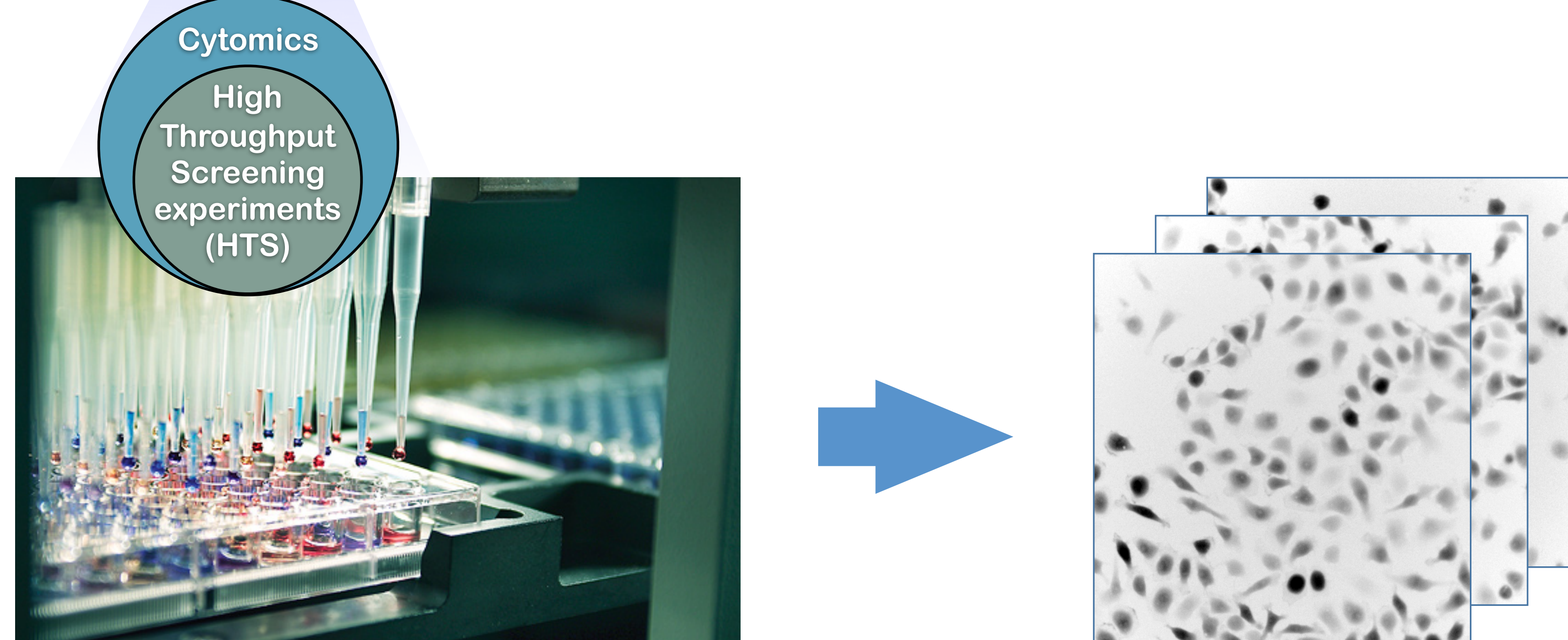
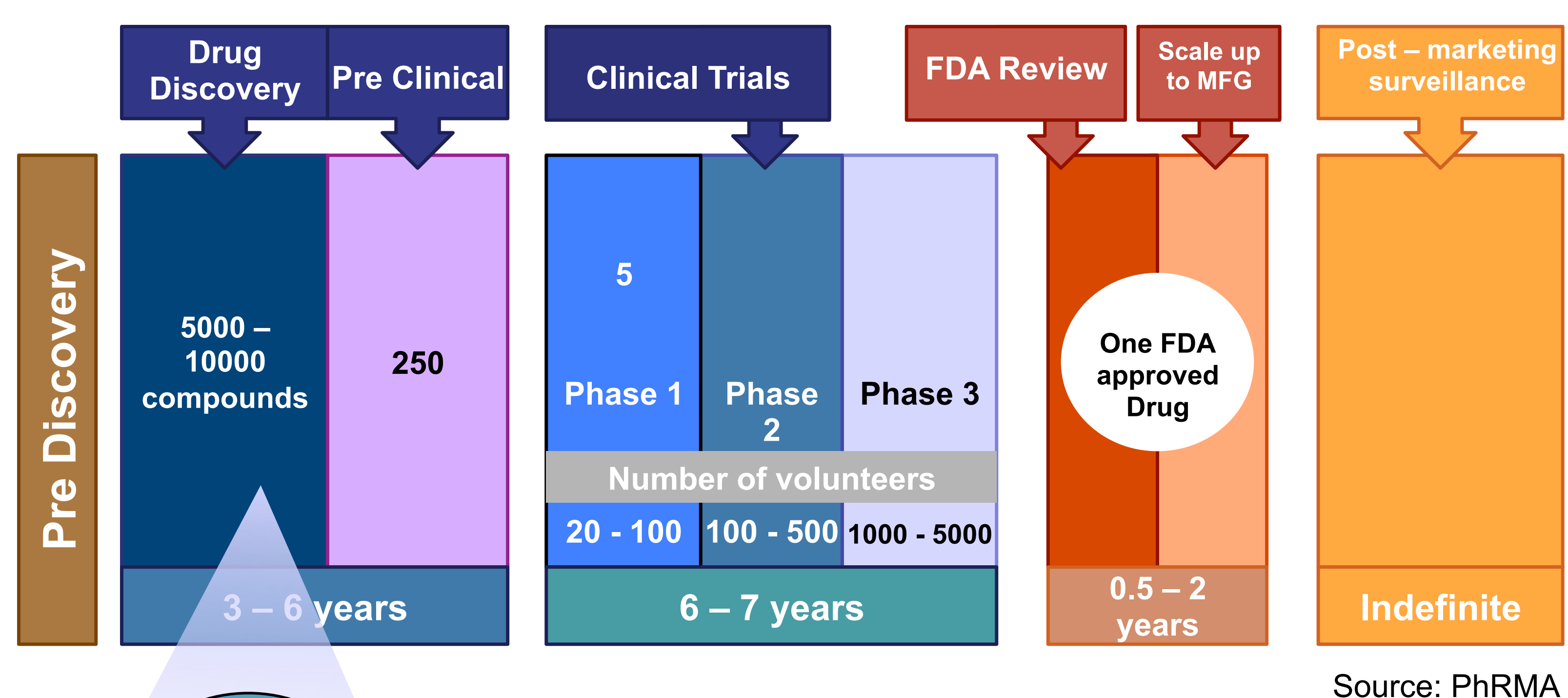
Life Sciences

CWI

Centrum Wiskunde & Informatica

Enrique Larios¹, Kuan Yan¹, Fons J. Verbeek¹, Ying Zhang², Fabian Groffen², Zi Di³, Sylvia LeDévédec³
 1 LIACS, Leiden University, The Netherlands; 2 CWI, Amsterdam, The Netherlands; 3 Department of Toxicology, Leiden University, The Netherlands

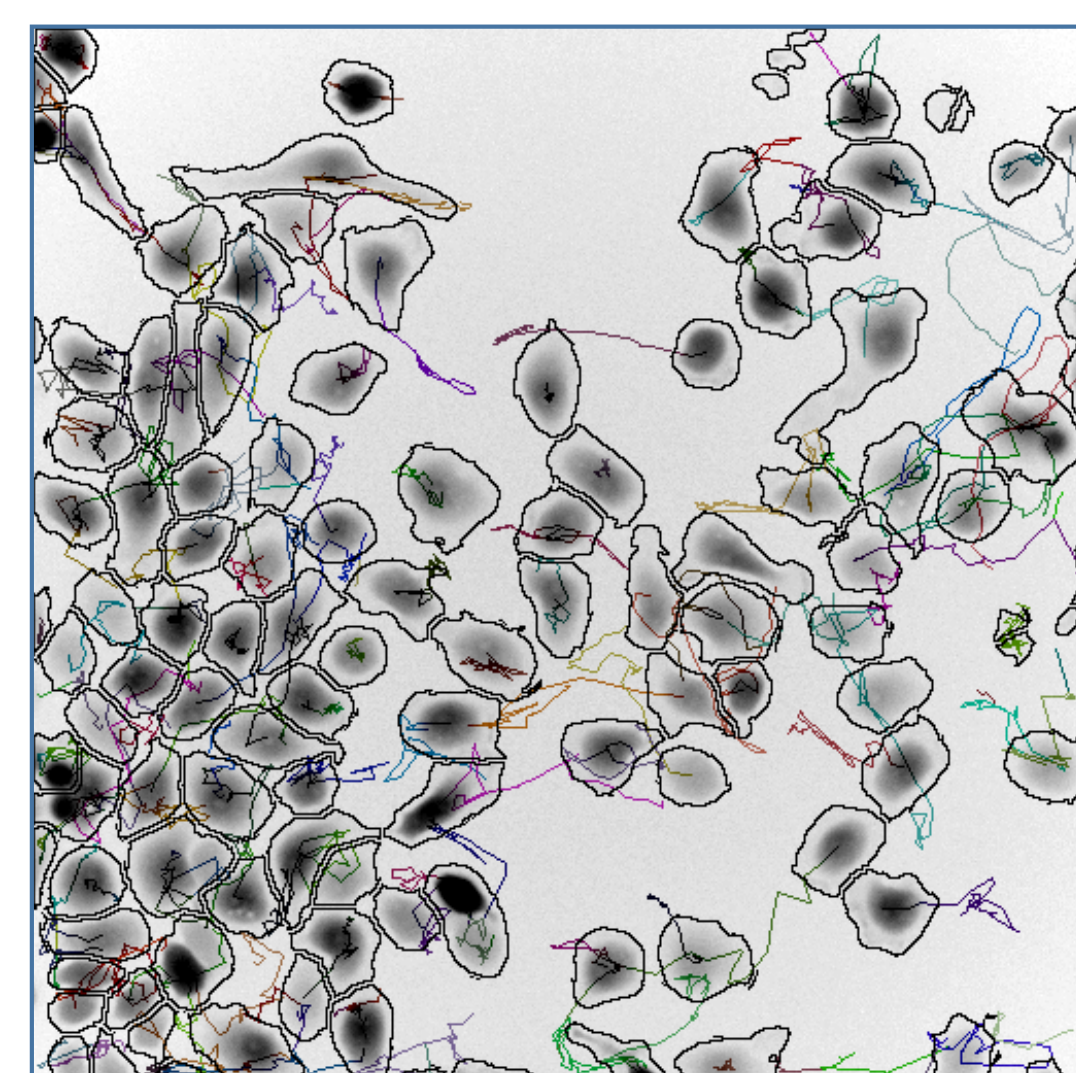
Development of New Drugs



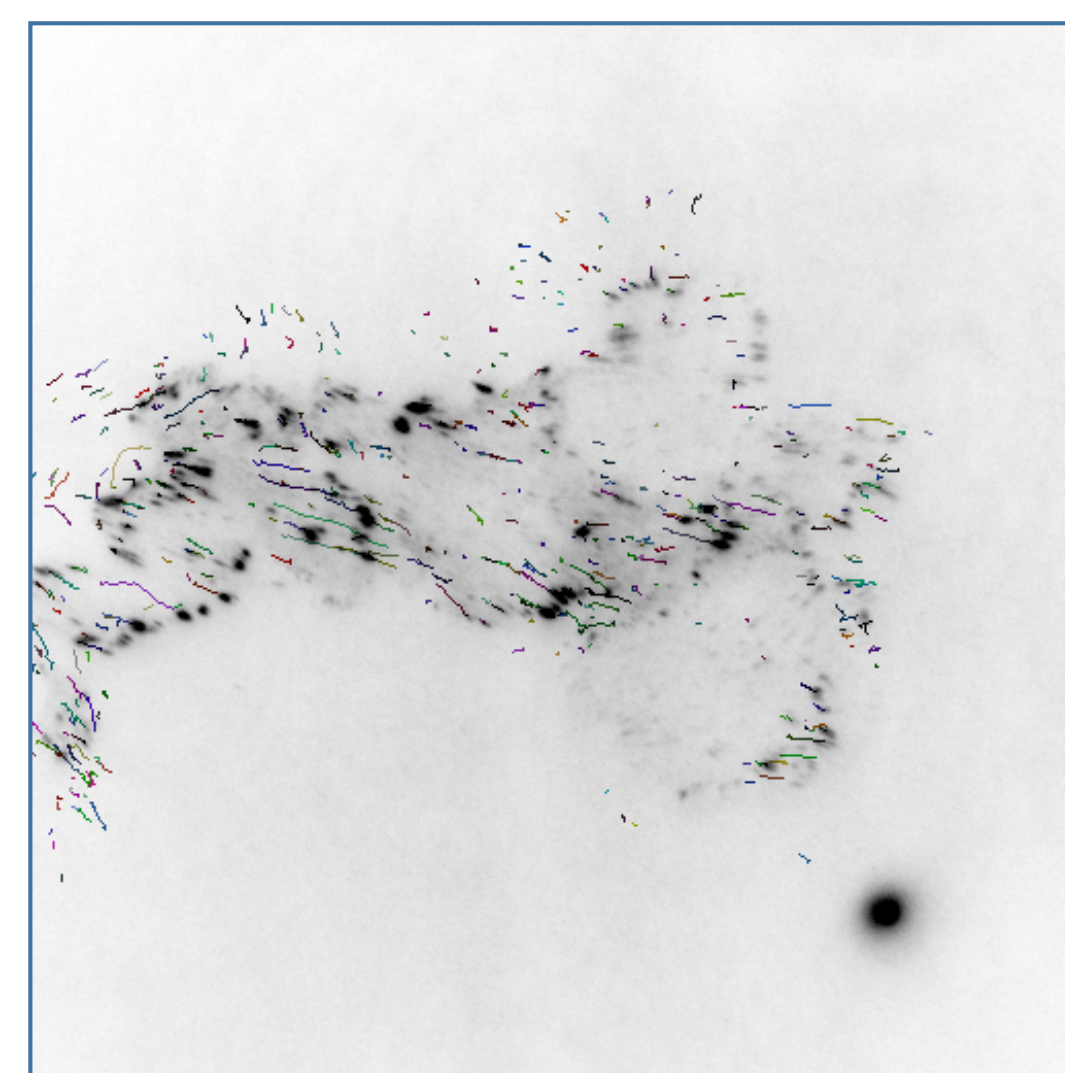
The current approach in cytomics is to conduct High Throughput Screening (HTS) experiments so that cells can be tested under different experimental conditions.

HTS Image Analysis

HTS image analysis provides an automated quantification of dynamic cell behavior in both cellular level and structural level

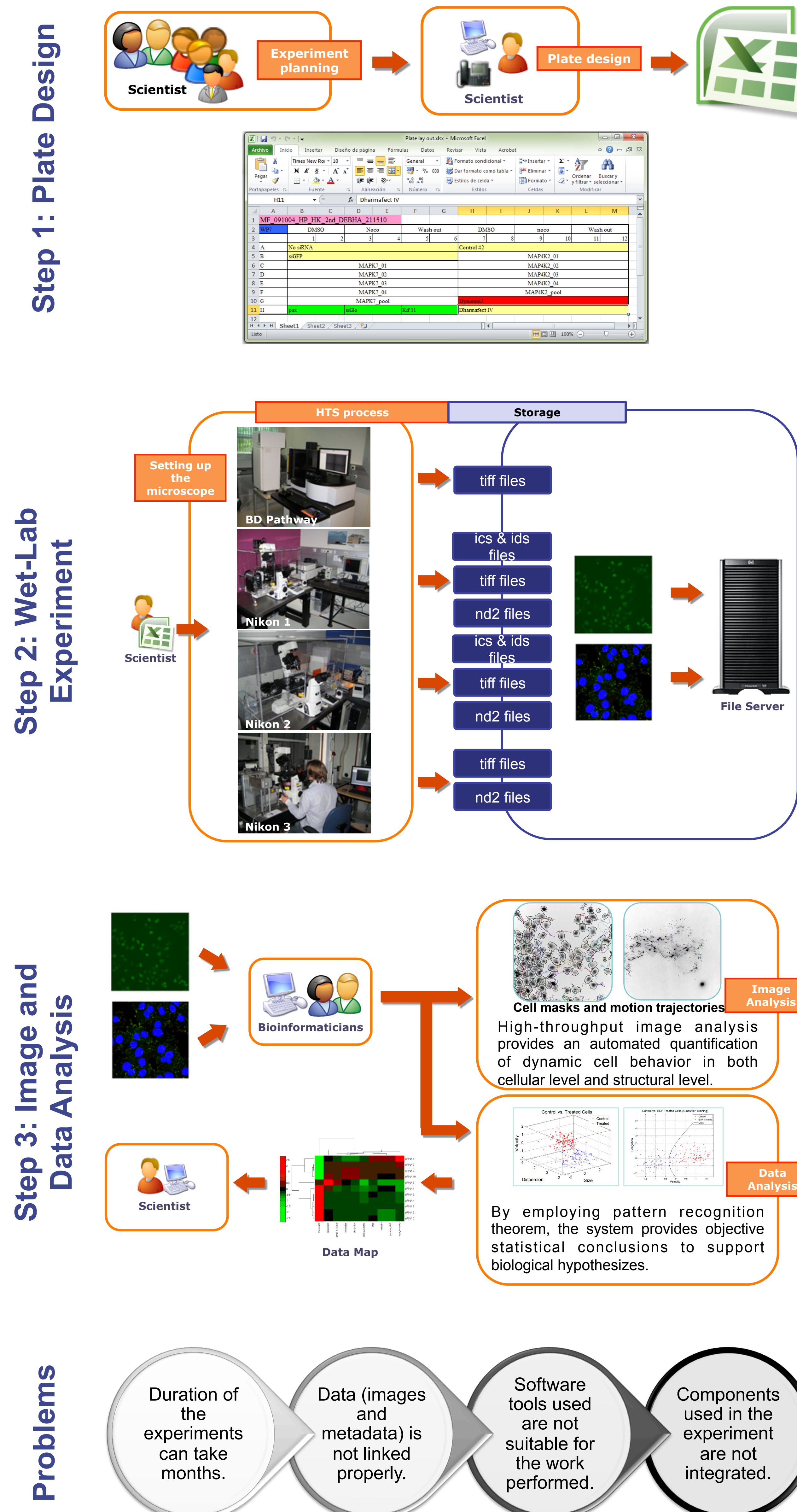


Cell Migration Analysis

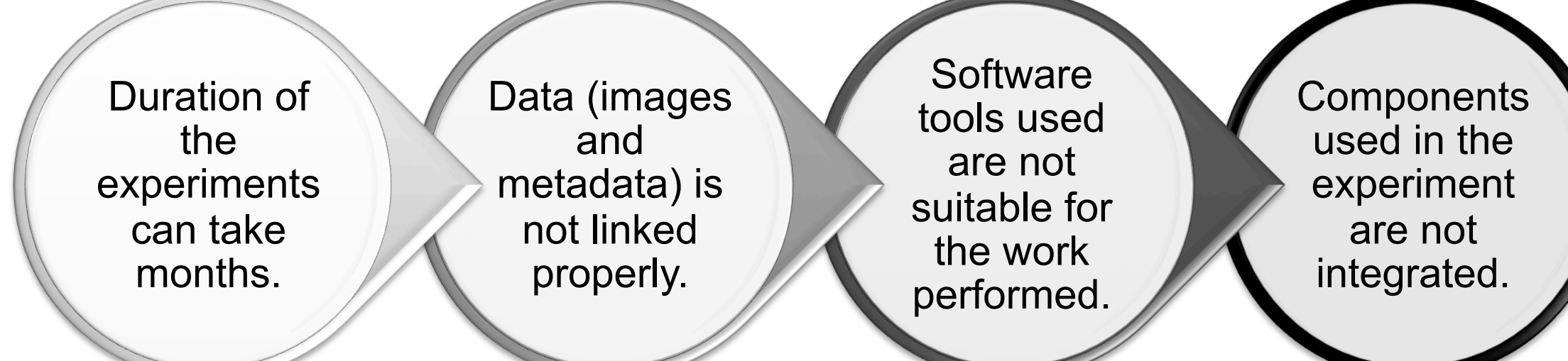


Structure Dynamics Analysis

Workflow in HTS Experiments

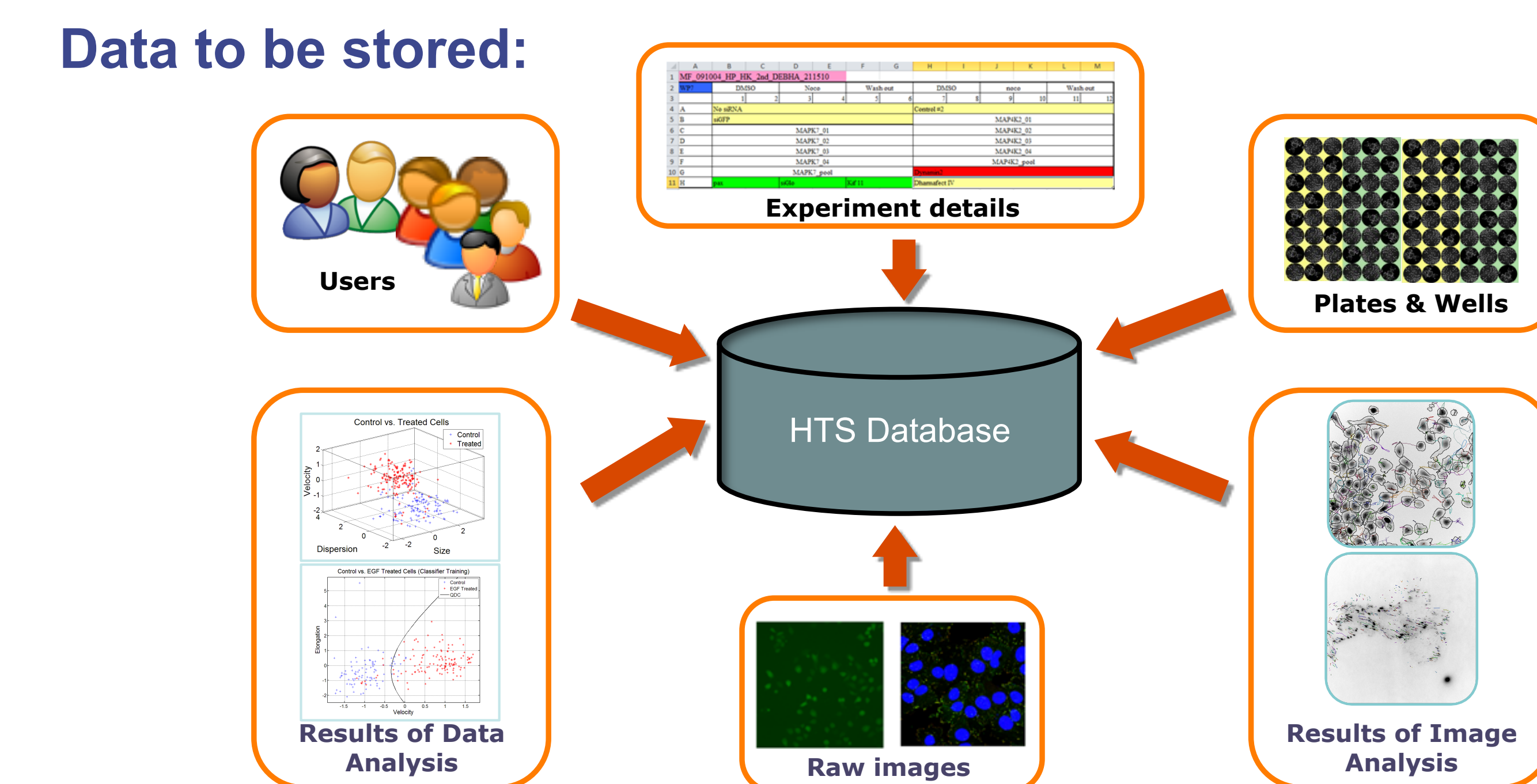


Problems

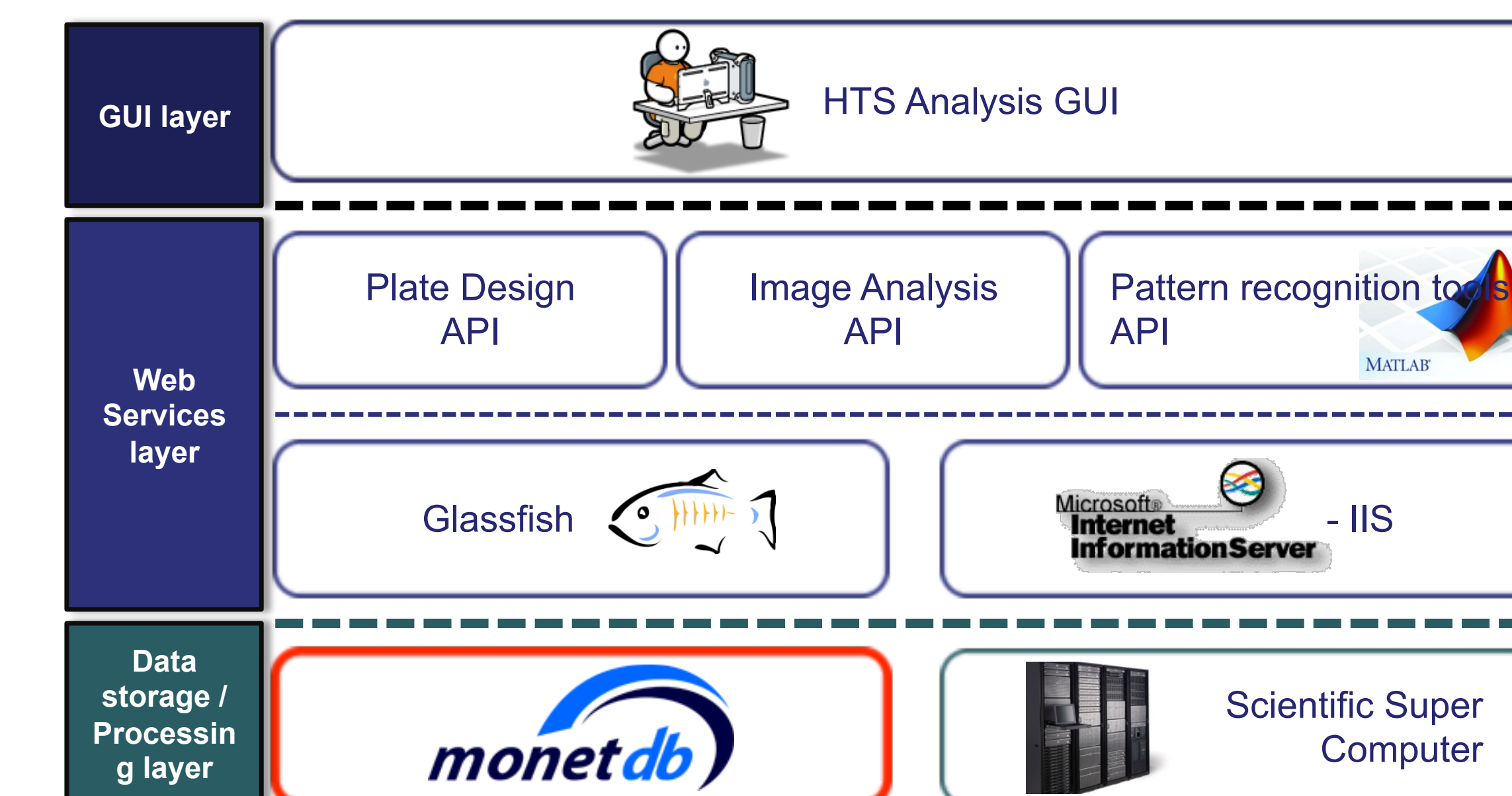


Lack of a Knowledge Discovery System: there is no platform that can facilitate scientists to learn from the experience.

Automated HTS Experiments Platform



System Architecture:



Web User Interface:

