



## Solution Design

Xavo's experience in manufacturing IT was pretty helpful for designing the solution. We incorporated three „old friends“ Inventory Management, Project Management and Tracking & Tracing (which are well known concepts in the manufacturing world).

## Inventory Management

The key component of the inventory management is the compound catalog which is maintained by the compound archive. It contains information about every compound that is available for screening. The logical information (compound data, plate layout, libraries, ...) is kept separately from the physical information (e.g. barcodes). This separation allows to create reference inventories for each storage unit. This reference inventory can be compared at any time to the storages real inventory. So the science staff has a real-time overview about what is missing in the storage.

Scientists can easily check the inventory of a certain storage unit to ensure that the chosen equipment meets the requirements of the defined screening run.

## Research-project Management

Based on the compound catalog introduced with inventory management users can create their own personalized research sets. They can release these research sets which create work lists for the HTS operators instantly. Operators also benefit from the compound catalog as they can compare their work lists with the inventory of all storages to find the most suitable system to do the screen on. The real work then is organized with so called run lists which can

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be created e.g. daily. These run lists give the operators the full flexibility to perform their jobs with the currently available equipment.

## Tracking & Tracking

Every plate movement, storage activity and compound usage is recorded in the system. This answers questions like „which plates were used in that screen?“ or „which source plate belongs to that specific assay plate?“. The researcher is also kept informed about the current status of a specific screen. Thus, he is now able to start analysing screening data without having to wait for the complete run to finish.

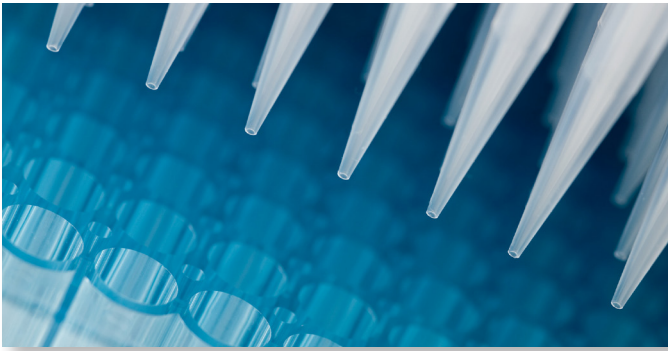
## Implementation

In the first phase from the end of 2008 to May of 2009 we implemented a prototype solution with support for the most important functions. After a successful test phase we did a proper re-engineering and implemented workflow refinements. The system now consists of a very reliable Oracle database system and a modern rich client application based on Microsofts ClickOnce technology (zero-administration client). Towards the end of 2009 we did some usability-engineering and from November 2009 to February of 2010 the final version was developed. In August 2010 the system was released to about 100 users of the Novartis Lead Finding Platform in Basel.

## Conclusion

With the use of the ELP solution important information like which storage meets the requirements of a specific screen is only a mouse click away. Today the system is an essential information provider that supports - but not dictates - the processes performed in drug discovery at Novartis.

## Project Facts



**Project Leader:** Thomas Wedehase (Xavo)  
**Time frame:** End of 2008 (Idea) to Mid 2010  
(Full Go-live with 100 users)  
**Location:** Basel (Switzerland)

Xavo Lab Logistics  
Oracle Database  
Infragistics NetAdvantage  
Microsoft ClickOnce

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### ...a contact person for more information

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