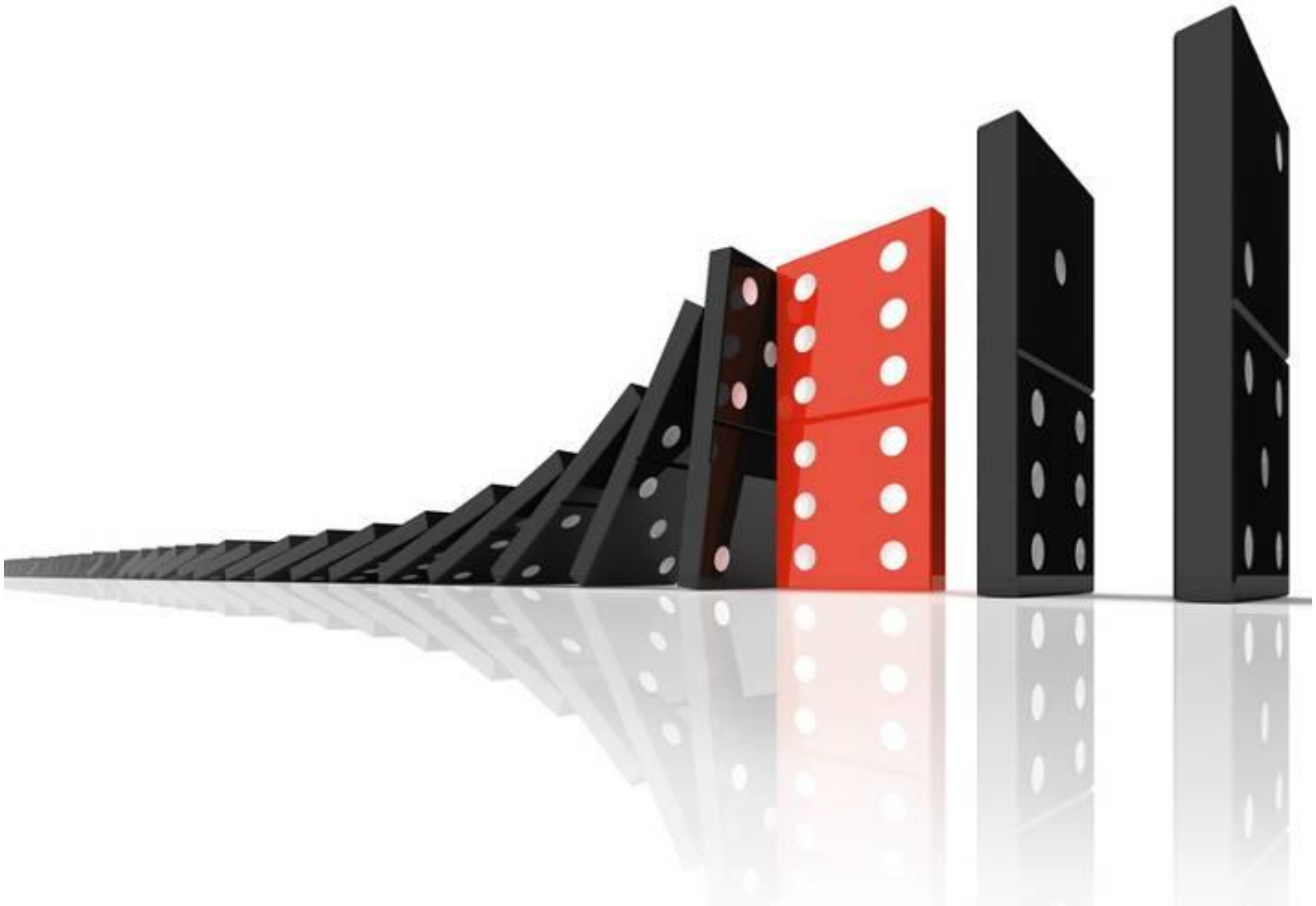
# Kustom Impact Analyser

## Predicting Kondor+ & K+TP Upgrade impacts on your custom code

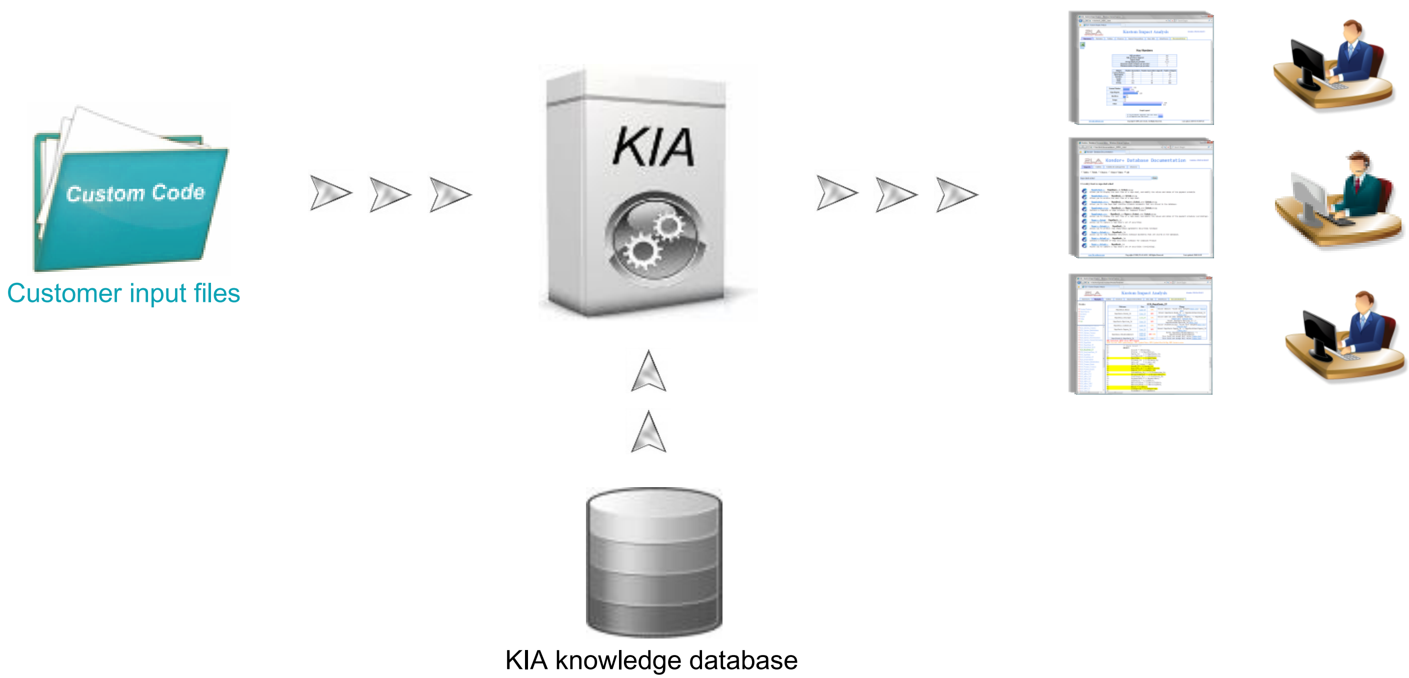


# What is the Kustom Impact Analyser?

The KIA analyses your customized developments and helps you saving time and money when migrating Kondor+ or K+TP.

It generates a tailor made HTML report for the following audience:

- **Project Managers**
- **Business Analysts**
- **Developers**



# Kondor+ or K+TP 3.x Upgrade Decision

## The Kustom Impact Analyser can influence the upgrade decision

A Kondor+ or K+TP migration relies on two main streams

- Core Product migration: easy to be under control as a standard migration process is provided by the software vendor
- Customization migration: is difficult to estimate and keep under control in terms of effort, cost and time as nothing exists to quantify this migration of the client customizations. This phase is quite often seen as the "Pandora box"

Therefore the banks can be reluctant in upgrading as they miss visibility for the project

- Cost
- Length
- Operational risk

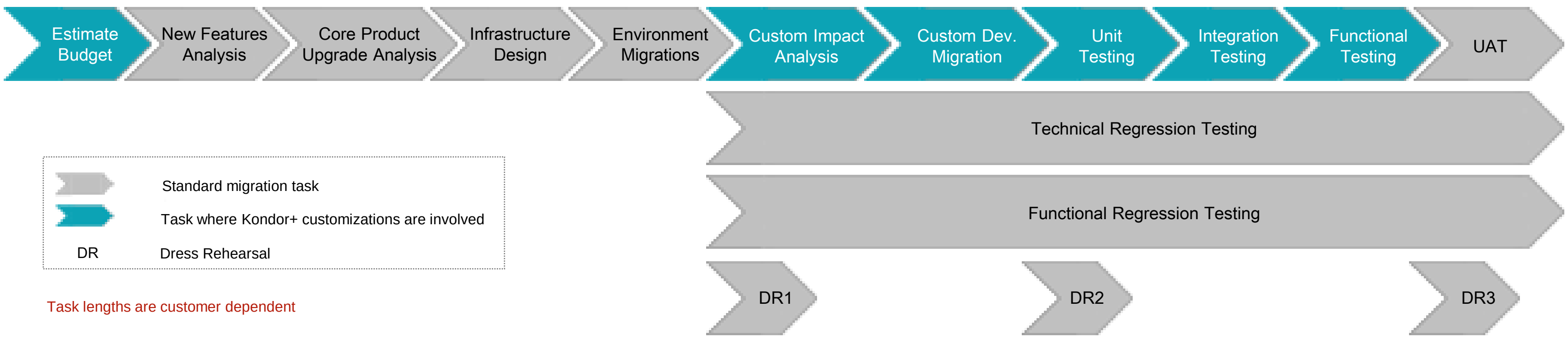
The KIA is an upgrade enabler as it allows to

- Estimate the project cost
- Reduce and control the project length (analysis, development and testing phases)
- Monitor the customization migration progress
- Reduce the operational risk of missing the migration of custom developments

**The KIA can influence the upgrade decision as it gives confidence and visibility in a Kondor+ or K+TP upgrade. You keep your upgrade under control.**

# Kondor+ or K+TP 3.x Upgrade Project

A 3.X upgrade project may have new functionality as business drivers.
But preserving the company investment in the form of custom developments and interfaces is essential.




All together, an important part of the investment will be to estimate and migrate this custom code, in the following tasks:

- Estimate Budget
- Custom Impact analysis
- Custom Development Migration
- Testing phases (Unit, Integration and Functional)

**Key to the project success is that the custom code migration is exhaustive.**
**The speed and effectiveness of the migration will determine an important part of the overall length of the upgrade.**

# How KIA can help you migrating K+ or K+TP

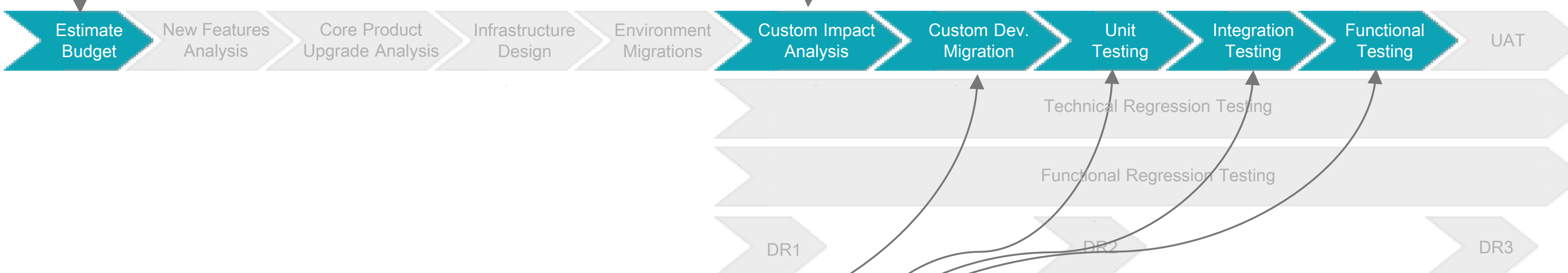
The Kondor+ Specialists

Use standard project metrics?
Use sampling of code?

| | |
|---|---|
| With KIA | Generation of DB of impacts provide exact number of impacts<br>Use of KIA provides a finite metric of effort per module impacted |

Analysis of the differences between the two K+ (or K+TP) versions at high level
Choice of fix methodology (i.e. all bonds or all Custom windows)
Identification of all impacts
Identification of change in both documentations at detail level
Identification of fixes to apply (new field name, change of choice,…)

| | |
|---|---|
| With KIA | Database of all changes between the two K+ versions<br>Creation of a report providing all the impacts<br>Link between impacts and enhanced change documentation |




Walk thru all files with changes identified
Walk thru all changes within a file
Code change

| | |
|---|---|
| With KIA | The report of impacts facilitates the code change process<br>Linked documentation reduces fix error |

Load each change in an upgraded K+
Check all interfaces input / output
Run all changes to validate exhaustively

| | |
|---|---|
| With KIA | Exhaustivity is guaranteed, only test what has changed!<br>Interface changes are checked as well<br>Re-run the KIA process to check everything is now compatible |

**KIA will impact all phases in a qualitative way, reducing risk, catching issues earlier. But also in a quantitative way, with accurate budget metrics and greatly reducing effort to identify, implement and validate changes required**

# KIA Added Value

## Qualitative improvements

- Most upgrade projects overshoot on customization migration by 100%
- Except projects where prior analysis is equal to the migration phase!
- Items missed discovered at integration testing stage cost 5 times as much to fix
- Items missed discovered at Acceptance testing or later can delay the project, cost real money or create reputation risk

## Quantitative improvements

| | Manually | With KIA |
|---|---|---|
| Estimate number of changes and effort | 40 | 2 |
| Analyse differences between two K+ versions | 40 | 0 |
| Identify impacted modules | 20 | 0 |
| Identify changes to be made | 80 | 10 |
| Execute changes | 40 | 10 |
| | **220** | **22** |

mandays

**Sample CBA based on real migration experience.**
**The installation used the full range of Kondor+ asset classes (millions of trades).**
**Their customized development size was 3,000 SQL files (more than 2 millions of code lines).**

**The KIA lowers significantly project risk that could double the project cost.**
**And it pays itself by dividing at least by 5 the project effort around your custom code and interface migration.**

# KIA Success

These institutions trusted the KIA for a successful Kondor+ and K+TP upgrade project.

# Kustom Impact Analyser

**Learn More…**

# Key Features

## The Kustom Impact Analyser…

- Provides Metrics on your SQL code (Sybase and Microsoft SQL Server)
  - Number of files or procedures impacted
  - Total number of impacts
  - Number of impacts per file or procedure
- Points out where and how your:
  - SQL source code should be amended
  - Import & Export interface files should be changed (*KplusFeed* and *XML* formats)
  - KSQL reports should be reviewed
  - UNIX Shell scripts containing SQL statements should be amended
- Tells where the impacts are in your source code (line number but also highlighted line)
- Provides the underlying Kondor+ database documentation explaining the changes
- Enables an exhaustive validation during the development migration lifecycle through several runs
- Eases the test cases writing as it points out where the issues are
  - In which Kondor+ modules: Custom Windows, Interfaces, Open Reports, etc.
  - Which instruments are impacted
  - What has to be changed
- Provides different views to navigate within the impact analysis (technical or functional approach)
- Allows to focus the test efforts on the development pieces where the changes were performed

# KIA Change Metrics

Excel document containing all the details (nb. of impacts per procedure, etc.)

2LA - Kustom Impact Analysis

Fichier | X:/kia3.0/html/__INDEX__.html

## Kustom Impact Analysis

Kondor+ **30U103** to **34U55**
K+TP **30U104** to **34U61**

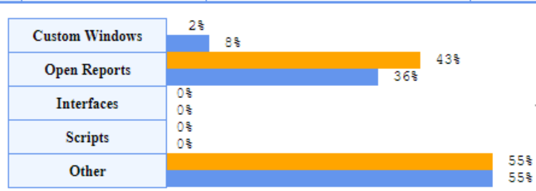
Summary | Modules | Tables | Choices | Impact Severities | Dyn. SQL | K+ DB Model | K+TP DB Model

Details

### Key Numbers

| | |
|---|---|
| SQL procedures | 413 |
| SQL procedures impacted | 95 |
| Impacts found | 449 |
| Orange Impacts | 397 |
| Red Impacts | 63 |
| Average impact per procedure | 4.72 |
| Maximum number of impacts per procedure | 32 |
| Minimum number of impacts per procedure | 1 |

| Modules | Number of procedures | Number of procedures impacted | Number of impacts | Orange impacts | Red impacts |
|---|---|---|---|---|---|
| Custom Windows | 17 | 2 | 37 | 19 | 26 |
| Open Reports | 126 | 41 | 163 | 163 | 0 |
| Interfaces | 51 | 0 | 0 | 0 | 0 |
| Scripts | 0 | 0 | 0 | 0 | 0 |
| Other | 219 | 52 | 249 | 215 | 37 |
| TOTAL | 413 | 95 | 449 | 397 | 63 |
| Excluded | 0 | 0 | 0 | 0 | 0 |




Graph Legend

# of procedures impacted over the total
# of impacts over the total

Statistics
- Nb. of files processed
- Nb. of impacted files
- Nb. of impacts
- Average nb. of impacts
- Max. nb. of impacts
- Min. nb. of impacts

Details per Kondor+ technical module

Graphical representation of these details

https://2la-software.com



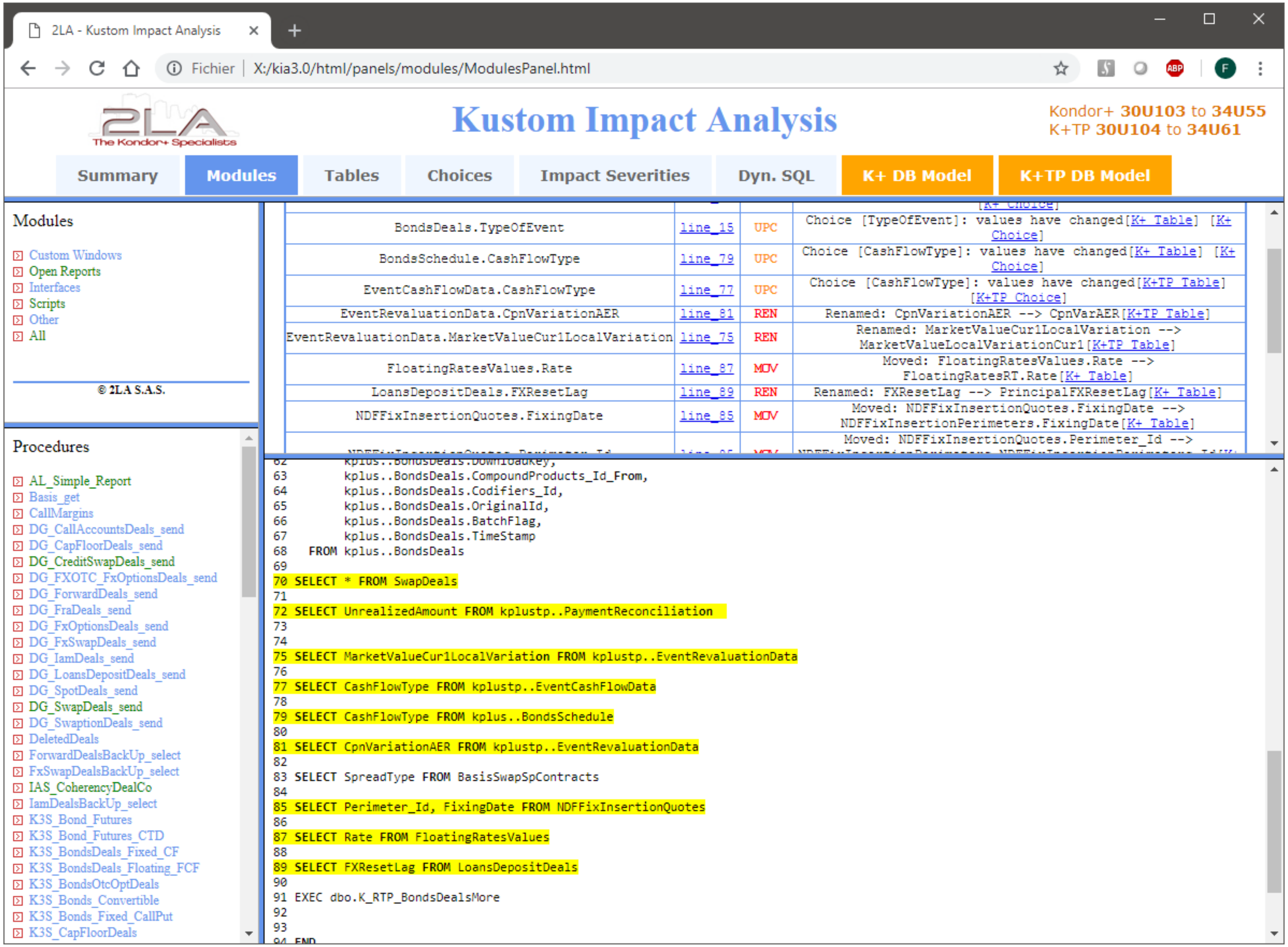
Last update: 2019-01-21 09:40:40

KIA v3.0

# It shows what should be changed and how…

Module Selection

Procedure Selection

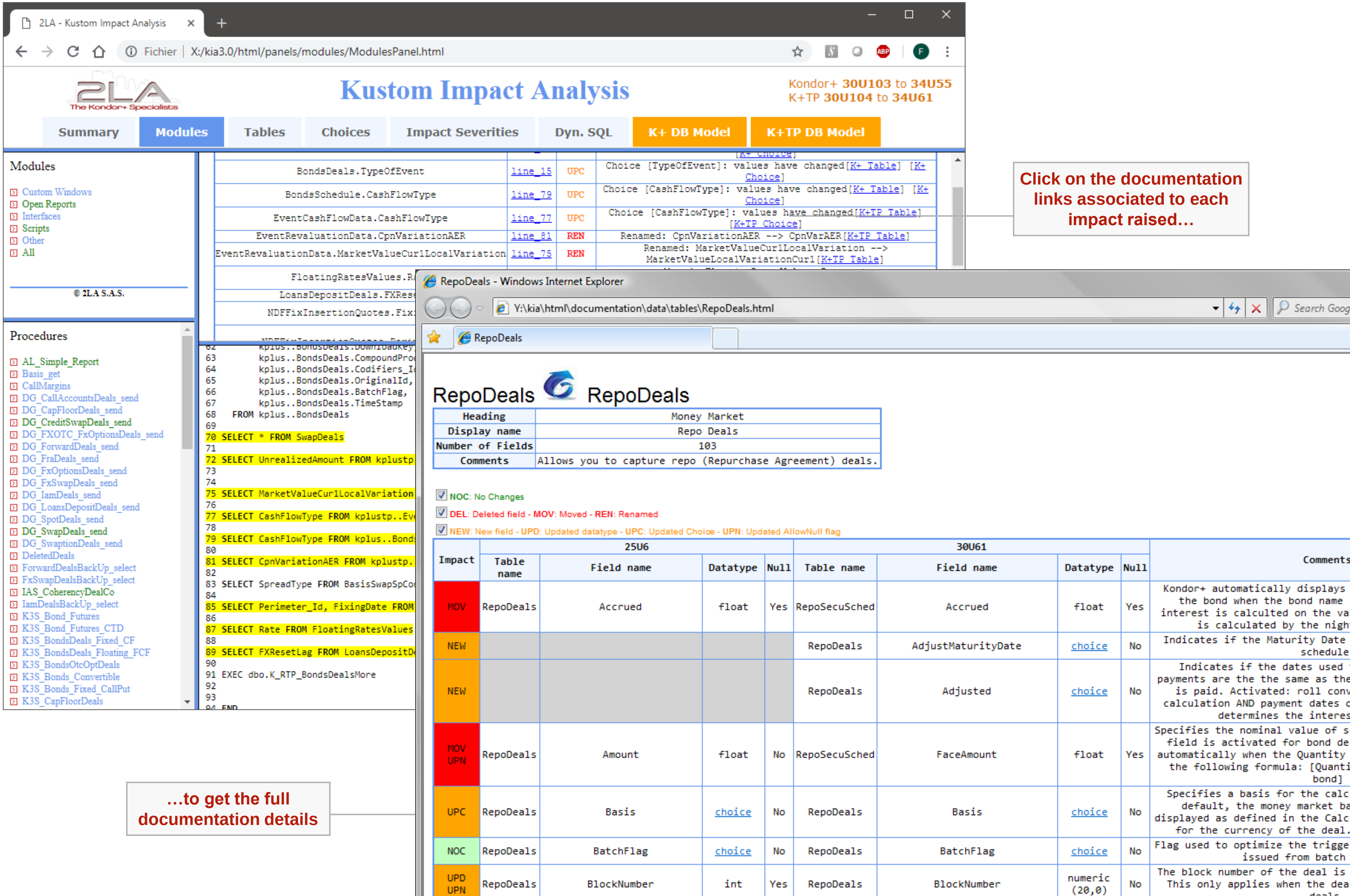



Procedure Impacts

Procedure Source Code

# …with the relevant documentation links…

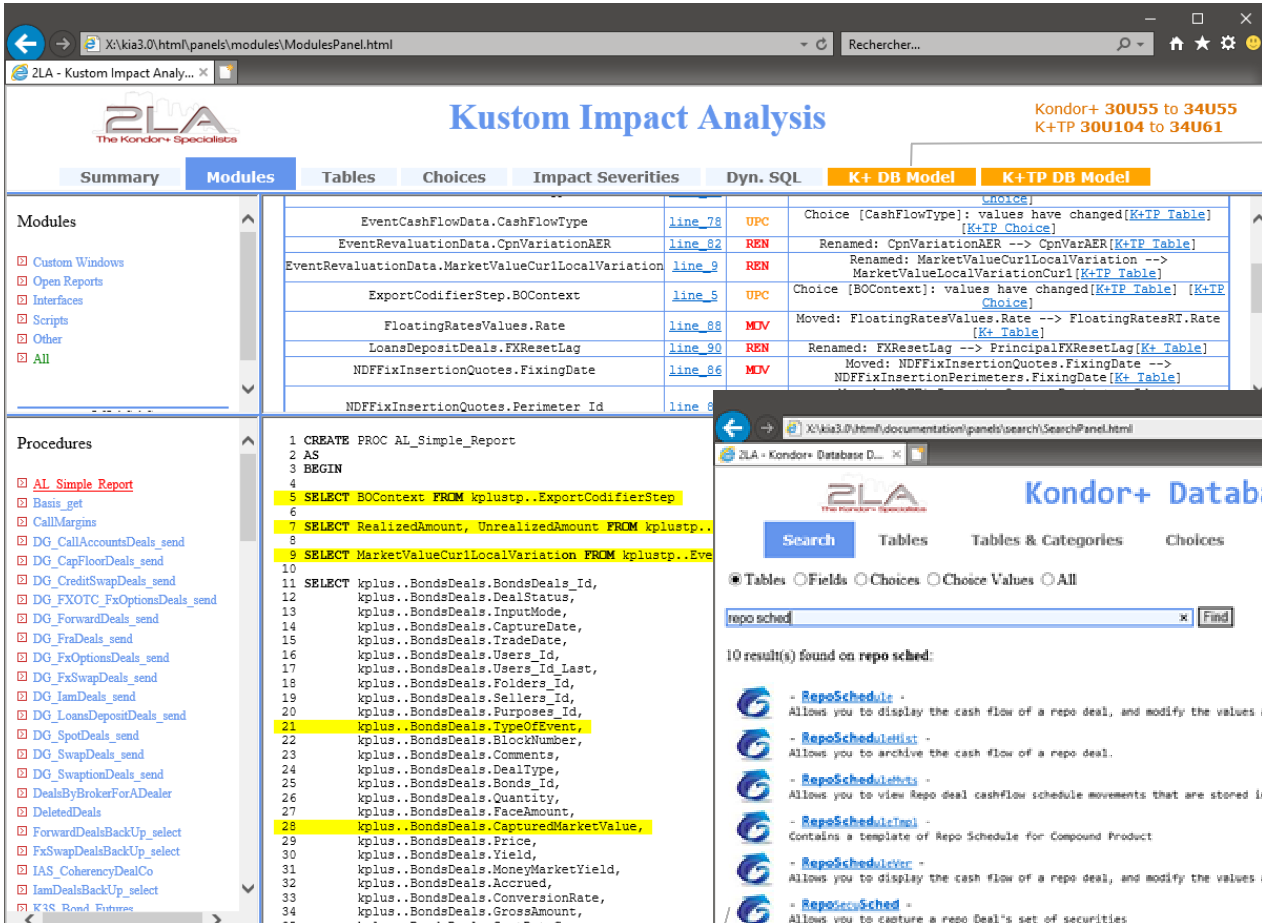
2LA
The Kondor+ Specialists




Click on the documentation links associated to each impact raised…

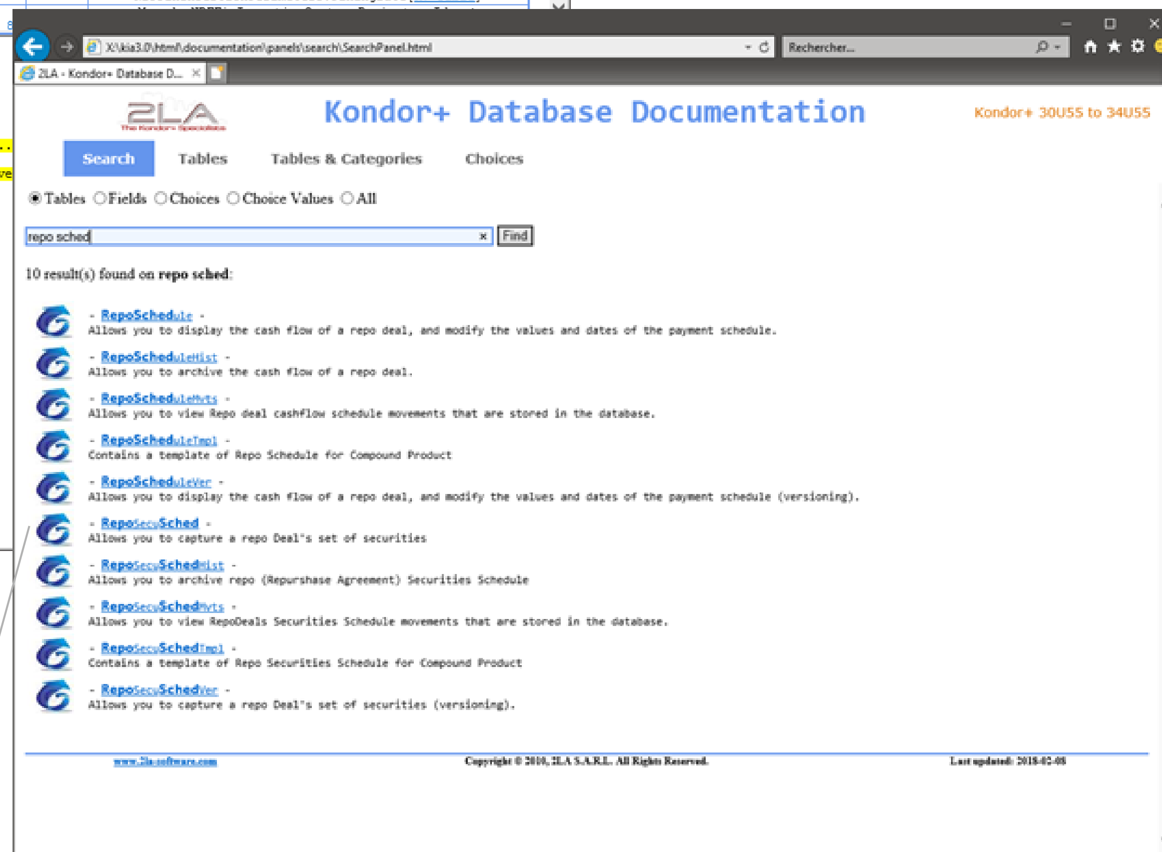
…to get the full documentation details

# …and a documentation search engine




Click on this tab

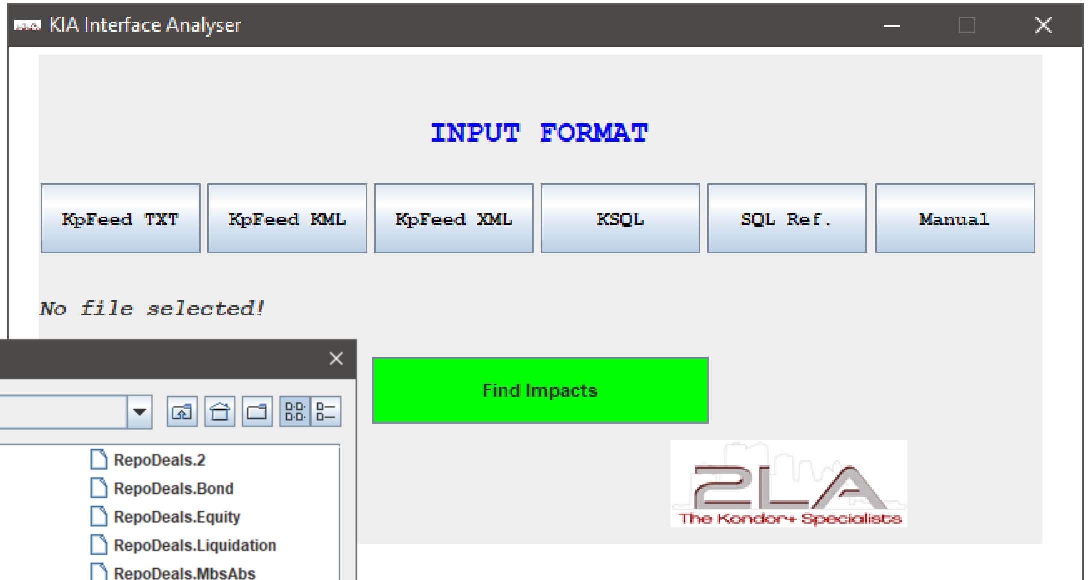
…to have access to the documentation tool and its Google like Search Engine…

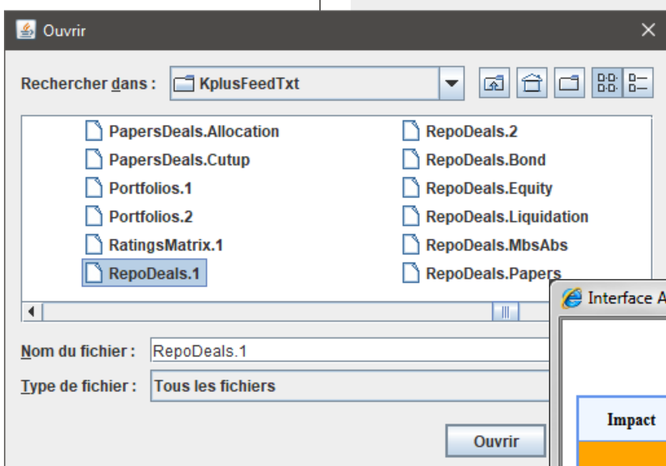



…then select the data model part you want to dive in

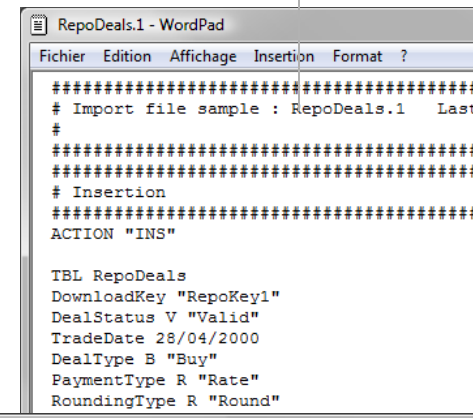
# It also analyses your interface files

Select the interface file format and the file to be analysed…




Example of interface file analysed




…to get the result of the impact analysis