



TIBCO Spotfire

Guest Lecture at Software Quality and Testing Course

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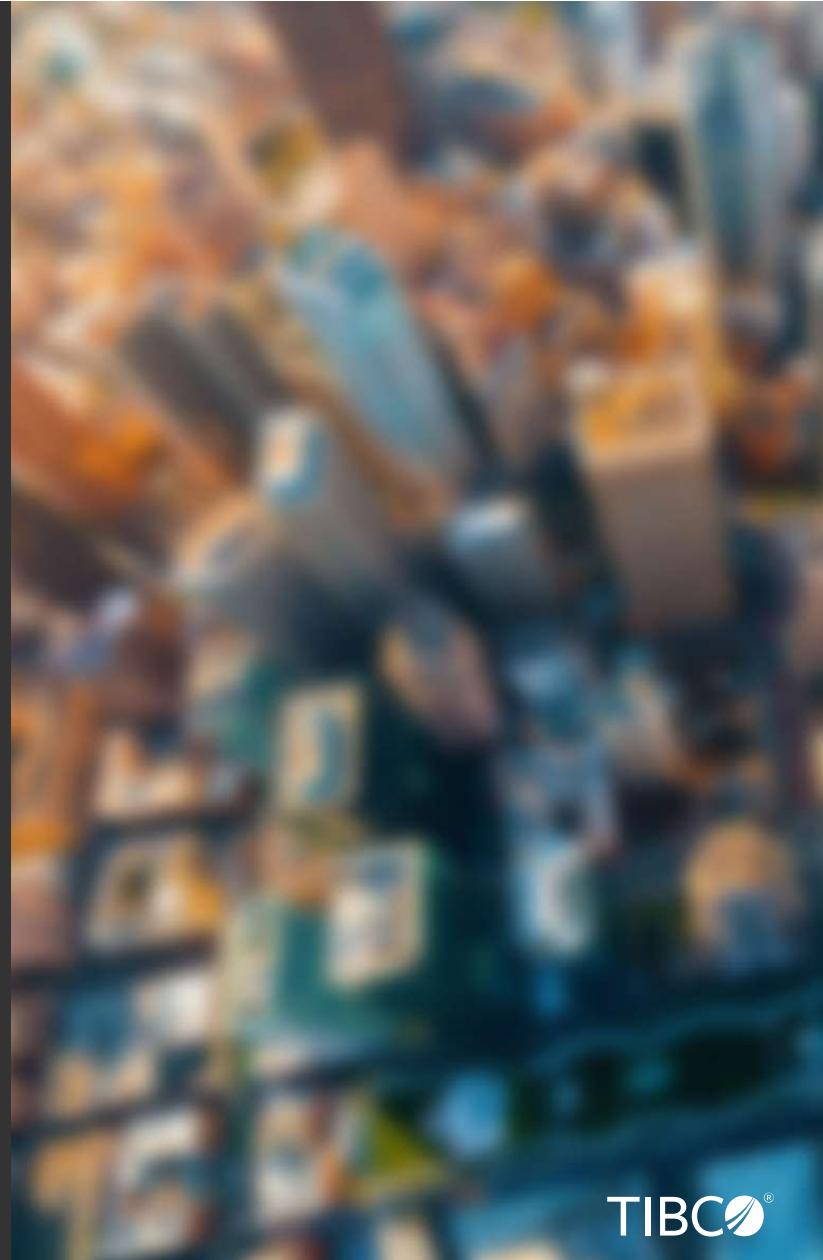
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Agenda

- Introductions – Anna & Karolina
- TIBCO company overview
- How do we work?
- Deployment pipeline
- What kind of testing do we do?
- A “normal” day for a tester
- Examples of how we use Spotfire
- Questions



EVERY ENTERPRISE FACES DISRUPTION FROM A RAPID RISE IN THE POTENTIAL AND IMPACT OF DATA

Distributed Computing



The Social Internet



Smart Mobile Disruption



Pivot to Cloud Ecosystems

SOLVING THE IMPOSSIBLE



Connect

seamlessly any application, device, or data source.

Unify

intelligently for better access, trust, and control.

Predict

confidently with real-time data-driven intelligence.

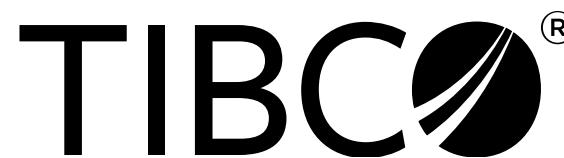


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MARKS & SPENCER

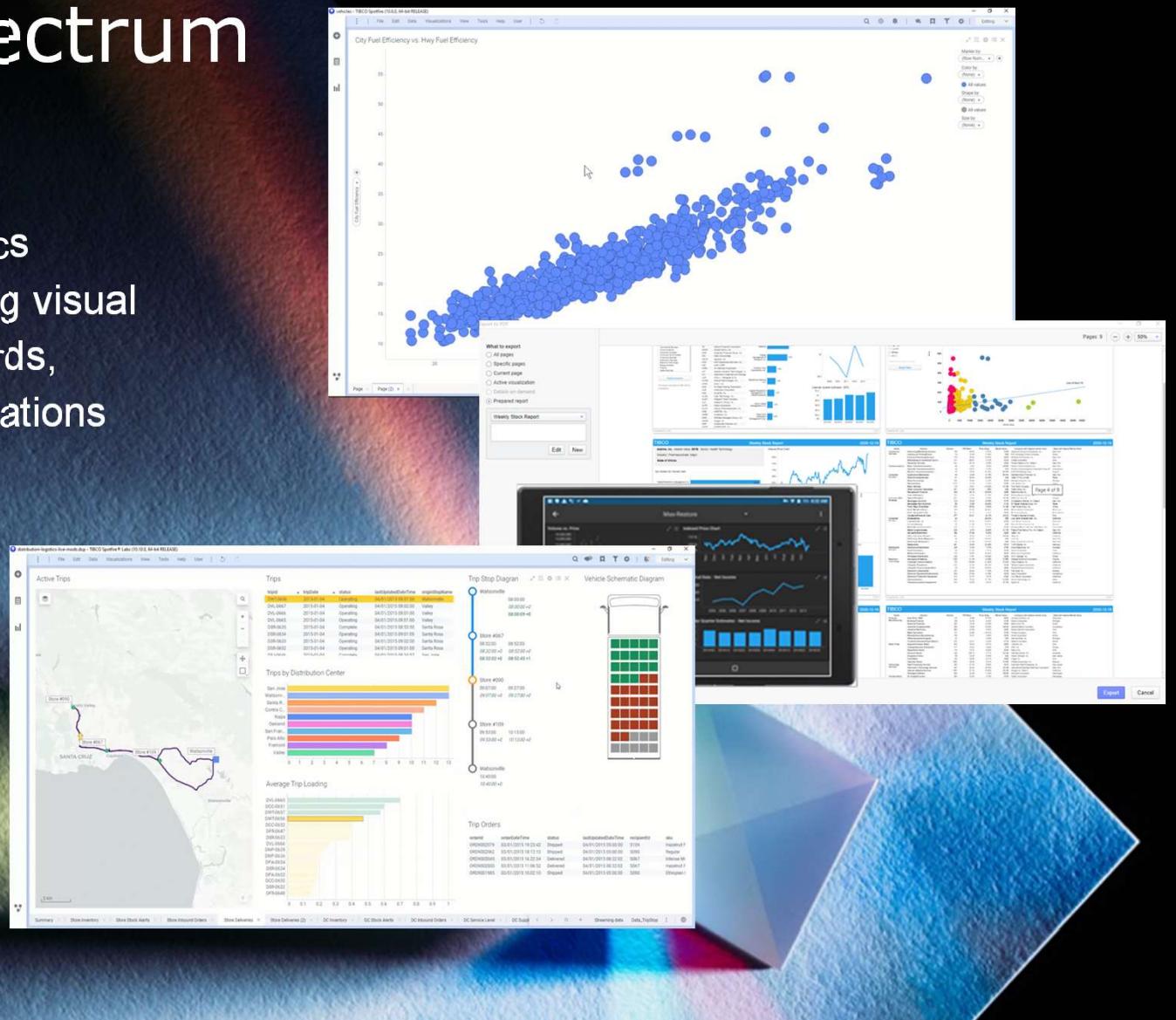


Founded in 1997
Based in Palo Alto, California
Present in 30+ countries
4000+ employees
10000+ customers

Spotfire full-spectrum analytics

Spotfire is a full-spectrum analytics platform, with capabilities covering visual analytics, data science, dashboards, reports, mobile BI, analytic applications and embedded analytics.

Spotfire brings insights from all kinds of data - static, in motion, in DB, in memory. In combination.



Spotfire Engineering

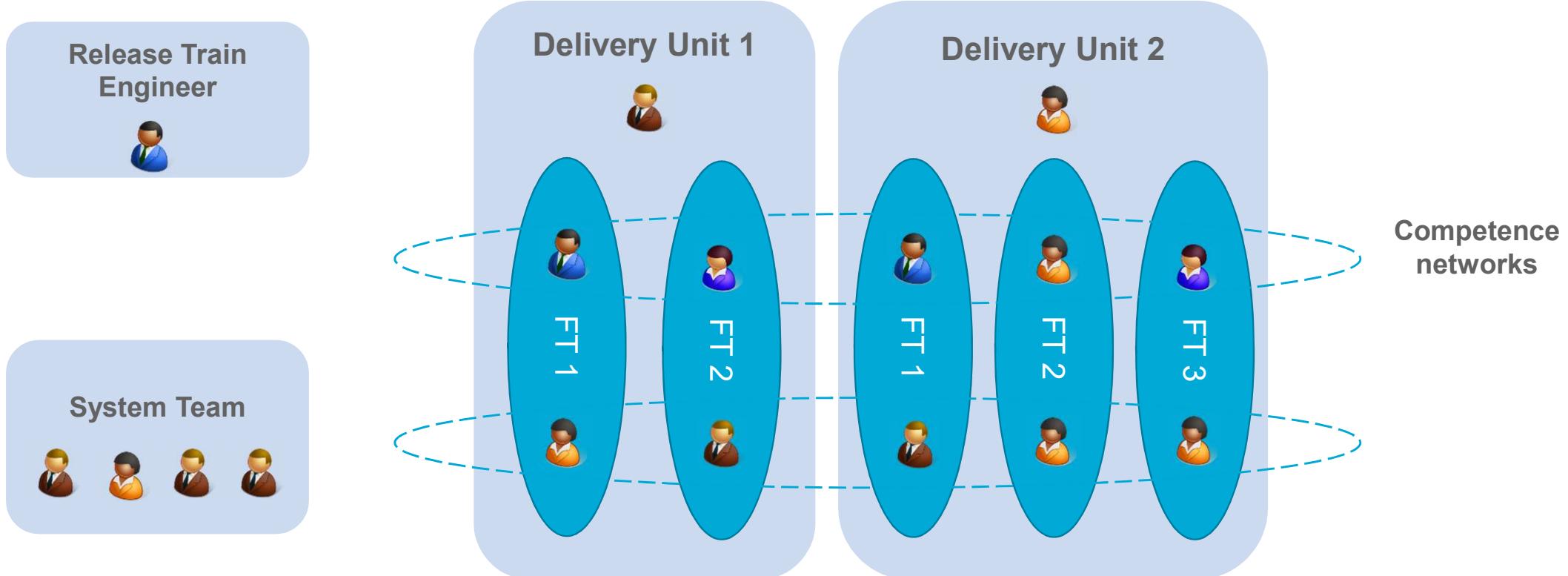
Global development team with ~150 employees



Göteborg (Sweden)
Timisoara (Rumania)
Paris (France)
Seattle (USA)
Pune (India)



Feature Teams and Delivery Units



How do we work?

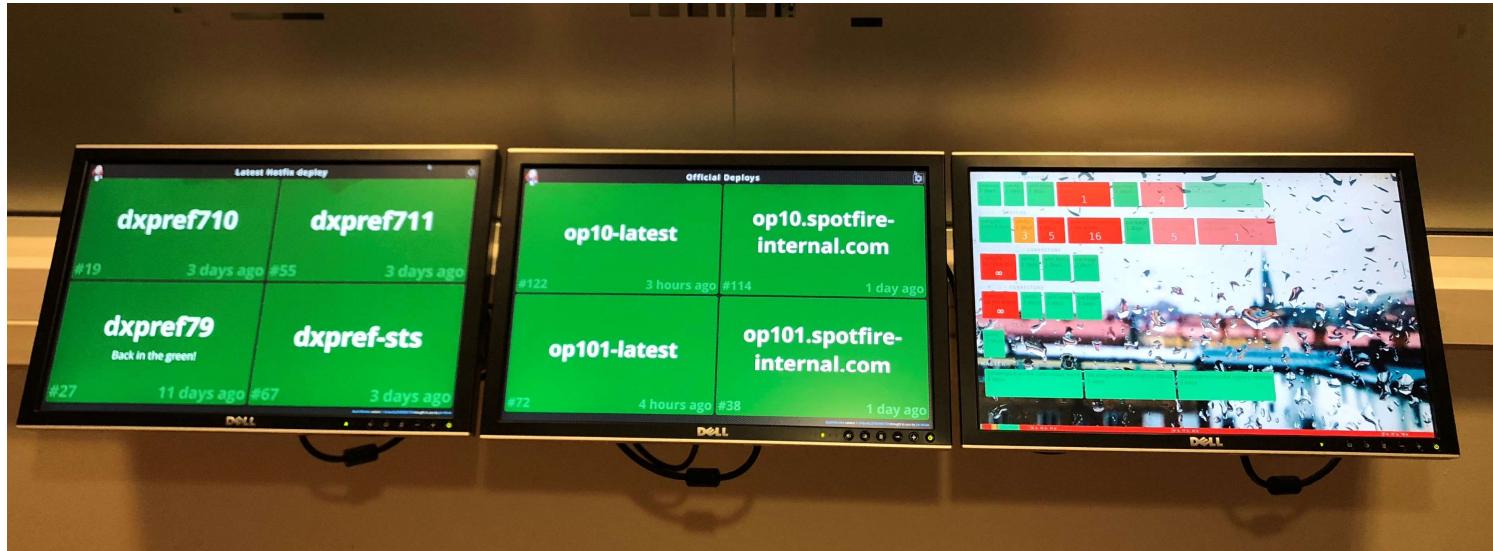
Program Increment (PI) planning
2-week sprints

Releases ~every month (including hotfixes, service packs)

On-premise software + Software-as-a-service (SaaS) offerings

Deployment pipeline

JIRA (Aha), Subversion/Git, Crucible+FishEye,
Jenkins/CruiseControl, SILK, SilkTest, SilkPerformer, etc



What kind of testing do we do?

Unit testing (JUnit & nUnit)

Performance/load testing

Exploratory testing (Test tour cards)

Automated testing (Selenium, Cypress, DesktopClient, HeavyRandom)

Other collaboration tools:

Email, Slack, Confluence, Gsuite, Zoom

A “normal” day for a tester



DM:2020-2:1

QUICK FILTERS: ~non-epic work ~Reported/scheduled ~In progress/review ~Resolved/test ~Closed ~Stories ~Bugs ~Tasks ~Enhancements FixVersion EMPTY ~Product Backlog ~Parked Only My Issues Recently Updated

① 8 days remaining Complete Sprint Board ↗

Blocked To do In Progress In Review Ready for test In Test Done

~ Support Case Container for DM 1 issue

② TS-62025 Create icons for "Trim", "MostCommonCasing" and "multiple whitespace" insights Data wrangling insight - Eliminate bla... TS-62027 Decide on and implement the Preview text for the Trim and MostCommonCasing insights Data wrangling insight - Eliminate bla... TS-62024 Investigate and Implement Priority system for insights Data wrangling insight - Eliminate bla... TS-62028 Performance tests Data wrangling insight - Eliminate bla... TS-62020 Implement message on extended data flyout recommendations tab needs to be updated to encompass all data insights Data wrangling insight - Eliminate bla... TS-62021 Investigate Tools->Options text regarding "background recommendations" Data wrangling insight - Eliminate bla... TS-62023 Separate License for Data Action Insights Data wrangling insight - Eliminate bla... TS-62022 Implement message on extended data flyout recommendations tab needs to be updated to encompass all data insights Data wrangling insight - Eliminate bla... TS-62026 Message about Relationships needs to be extended to encompass all kinds of data insights Data wrangling insight - Eliminate bla... TS-62029 Write unit tests for non-final-table cases Data wrangling insight - Eliminate bla... TS-62030 No Progress Description for applying action insight Data wrangling insight - Eliminate bla... TS-62031 "Update..." link in Recommendations does not work Data wrangling insight - Eliminate bla... TS-62032 Resource @@-strings Data wrangling insight - Eliminate bla... TS-62033 Update insights on replace data table/data source and on application of insight Data wrangling insight - Eliminate bla... TS-62034 Enable column name editing in the "Edit calculated column" dialog DM improvements TS-62035 Enable column name editing in the "Edit calculated column" dialog DM improvements TS-62036 Miniature visualizations may show incorrect values after evaluation/rendering is cancelled TS-62037 Crash (Access Violation) when performing many steps in a customer analysis file TS-62038 Mashup analysis intermittently crashes TS-62039 Layout - [GHS] - [Client] - "Input parameter name" input field frame display missed blue line on "Input Parameter" dialog TS-62040 Opening a local file that uses the Import Settings prompt fails to select default encoding so cannot read the data TS-62041 Not possible to ignore rows when importing a CSV file

~ DM Improvements 1 issue

~ Issues without epics 9 issues

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| About this analysis | | | | Test Status for TS-49553 | Review Test Cases | Issues | | | | | | | | | | | | | | |
|--|--------------|-------------|------------------------|--|--|--|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| This analysis shows the test status for Epic/Story | | | | | | | | | | | | | | | | | | | | |
| TS-49553 | | | | Name | Internal: Build a connector to Streambase | Description | SilkID | | | | | | | | | | | | | |
| | | | | | | OWNER:NAMBERNT design-proposal-uri: <http://got-sp02/engineering/ProductDocuments/Gothenburg/Product%20Documents/Design%20Proposals/Design%20Proposal%20-%20Spotfire%20StreamBase%20Integration.pptx> | 49202 | | | | | | | | | | | | | |
| | | | | | | Build a snapshot based connector to streambase so that we can get data from streambase into spotfire | | | | | | | | | | | | | | |
| Last execution status for test cases | | | | | | | | | | | | | | | | | | | | |
| TestId | Status | Description | LastExecutedAt | ▼ TestName | TestDescription | | | | | | | | | | | | | | | |
| 809490 | Passed | | 4/4/2018 8:48:14 AM | LDM.Researcher.Intellectual.Combine selection methods | Try various combinations of Prompted values, Filters and Markings to verify that those works fine together. Also combine wi... | | | | | | | | | | | | | | | |
| 809467 | Passed | | 4/4/2018 8:28:55 AM | LDM.Globetrotter.Collector.Data Connection Cache Settings | Exploratory testing around the settings that can be done in the Streaming Cache settings. - Note! The Query Tracker (on... | | | | | | | | | | | | | | | |
| 809469 | Failed | | 1/16/2018 12:21:42 PM | LDM.Functional.User security | Validate that the functionality works together with other functionality | | | | | | | | | | | | | | | |
| 809488 | Failed | | 12/28/2017 1:53:32 PM | LDM.Historian.BadNeighborhood | The steps can be executed in any order | | | | | | | | | | | | | | | |
| 809485 | Passed | | 12/19/2017 12:34:39 PM | LDM.Globetrotter.Landmark.Analyist | Verify that data can be collected from various Streambase versions | | | | | | | | | | | | | | | |
| 809472 | Passed | | 12/19/2017 9:52:33 AM | LDM.Globetrotter.Collector.Supported versions | Exploratory testing around the settings that can be done in the data panel on column level - | | | | | | | | | | | | | | | |
| 809482 | Failed | | 12/13/2017 1:27:50 PM | LDM.Globetrotter.Collector.Prompt Types.Variables | Exploratory testing around the settings that can be done in the data overview on table level - | | | | | | | | | | | | | | | |
| 809474 | Passed | | 12/11/2017 11:49:22 AM | LDM.Globetrotter.Collector.DataPanel functionality | Verify that unexpected behaviours are being handled in a proper way | | | | | | | | | | | | | | | |
| 809473 | Passed | | 12/6/2017 1:16:43 PM | LDM.Globetrotter.Collector.DocumentOverview functionality | Use as many functions as possible that are available in the Data Connection dialogue. | | | | | | | | | | | | | | | |
| 809456 | Passed | | 12/6/2017 12:04:41 PM | LDM.Anti-social | Verify different ways to add data from LDM | | | | | | | | | | | | | | | |
| 809462 | Passed | | 11/15/2017 10:10:38 AM | LDM.Globetrotter.Collector.Data Connection functionality | Verify that the predefined data sources and connections can be used. | | | | | | | | | | | | | | | |
| 809470 | Passed | | 11/10/2017 9:56:20 AM | LDM.Globetrotter.Collector.Add data | - Verify the different Streambase functions of category BSON. A complete list of functions can be found at https://docs.g... | | | | | | | | | | | | | | | |
| 809487 | Failed | | 11/8/2017 10:20:27 AM | LDM.Globetrotter.Landmark.Manage data connections | Validate the handling of document properties in various situations. Use invalid values and types. | | | | | | | | | | | | | | | |
| 809147 | Failed | | 11/7/2017 1:18:46 PM | LDM.Globetrotter.Collector.Streambase functions BSON | - Verify the different Streambase functions of category Windowing. A complete list of functions can be found at https://do... | | | | | | | | | | | | | | | |
| 809526 | Failed | | 11/2/2017 3:02:15 PM | LDM.Terrorist.Document properties | - Verify the different Streambase functions of category Utilities. A complete list of functions can be found at https://do... | | | | | | | | | | | | | | | |
| 809158 | Failed | | 11/1/2017 1:56:35 PM | LDM.Globetrotter.Collector.Streambase functions Unsupported | - Verify the different Streambase functions of category timestamps. A complete list of functions can be found at https://do... | | | | | | | | | | | | | | | |
| 809157 | Passed | | 11/1/2017 1:12:54 PM | LDM.Globetrotter.Collector.Streambase functions.Windowing | - Verify the different Streambase functions of category NaN (Not a number). A complete list of functions can be found at... | | | | | | | | | | | | | | | |
| 809156 | Passed | | 11/1/2017 11:44:02 AM | LDM.Globetrotter.Collector.Streambase functions.Utilities | - Verify the different Streambase functions of category Financial. A complete list of functions can be found at https://do... | | | | | | | | | | | | | | | |
| 809155 | Failed | | 11/1/2017 10:32:37 AM | LDM.Globetrotter.Collector.Streambase functions.Type conversions | - Verify the different Streambase functions of category Type conversions. A complete list of functions can be found at ht... | | | | | | | | | | | | | | | |
| 809154 | Failed | | 10/30/2017 3:39:06 PM | LDM.Globetrotter.Collector.Streambase functions.Timestamps | - Verify the different Streambase functions of category Statistical Calculations. A complete list of functions can be found... | | | | | | | | | | | | | | | |
| 809152 | Failed | | 10/16/2017 11:01:23 AM | LDM.Globetrotter.Collector.Streambase functions.Statistical Calculations | - Verify the different Streambase functions of category NaN. A complete list of functions can be found at https://do... | | | | | | | | | | | | | | | |
| 809151 | Failed | | 10/16/2017 8:52:05 AM | LDM.Globetrotter.Collector.Streambase functions.NaN | - Verify the different Streambase functions of category Financial. A complete list of functions can be found at https://do... | | | | | | | | | | | | | | | |
| 809148 | Failed | | 10/13/2017 7:18:04 AM | LDM.Globetrotter.Collector.Streambase functions.Financial | - Verify the different Streambase functions of category Math. A complete list of functions can be found at https://do... | | | | | | | | | | | | | | | |
| 809153 | Failed | | 10/11/2017 12:48:26 PM | LDM.Globetrotter.Collector.Streambase functions.Strings | Verify that LDM data can be used in various visualizations | | | | | | | | | | | | | | | |
| 809457 | Failed | | 10/5/2017 12:46:46 PM | LDM.Anti-social.ObsessiveCompulsive | - Verify the different data types and that they get a good matching type in Spotfire. Consider: - min, max and null values... | | | | | | | | | | | | | | | |
| 809149 | Failed | | 10/5/2017 2:26:39 PM | LDM.Globetrotter.Collector.Streambase functions.Math | - Execute a Streambase function of each category. This is a reduced version of the other Streambase Globetrotter.Colle... | | | | | | | | | | | | | | | |
| 809483 | Failed | | 9/29/2017 11:26:33 AM | LDM.Globetrotter.Collector.Visualizations | The steps can be executed in any order | | | | | | | | | | | | | | | |
| 809146 | Failed | | 9/29/2017 10:13:17 AM | LDM.Globetrotter.Collector.Data Types | Interrupt and redo the same steps. - Both when waiting for input and when the system is working. | | | | | | | | | | | | | | | |
| 809159 | Not Executed | | | LDM.Globetrotter.Collector.Streambase functions.Reduced | Improvise in your own way and try to fail the Streambase Connector - If a potential security hole is found. do NOT file a bug... | | | | | | | | | | | | | | | |
| 809458 | Not Executed | | | LDM.Charter.Guidebook.Help texts | Validate the help texts | | | | | | | | | | | | | | | |
| 809459 | Not Executed | | | LDM.Charter.Supermodel | Validate the look-and-feel of the LDM connector GUI | | | | | | | | | | | | | | | |
| 809478 | Not Executed | | | LDM.Globetrotter.Collector.Different browsers | Verify that Streambase prompting and login works in different browsers | | | | | | | | | | | | | | | |
| 809479 | Not Executed | | | LDM.Globetrotter.Collector.Different clients | Verify that the Streambase connector works in different clients | | | | | | | | | | | | | | | |
| 809480 | Not Executed | | | LDM.Globetrotter.Collector.Localization | The steps can be executed in any order | | | | | | | | | | | | | | | |
| 809486 | Not Executed | | | LDM.Globetrotter.Landmark.BusinessAuthor | External data Requirement | | | | | | | | | | | | | | | |
| 809491 | Not Executed | | | LDM.Terrorist.Rainedout | TIBC | | | | | | | | | | | | | | | |
| 809492 | Not Executed | | | LDM.Terrorist.Saboteur | | | | | | | | | | | | | | | | |

Ready

External data Requirement



Live demo of Spotfire X

Unit test code coverage analysis





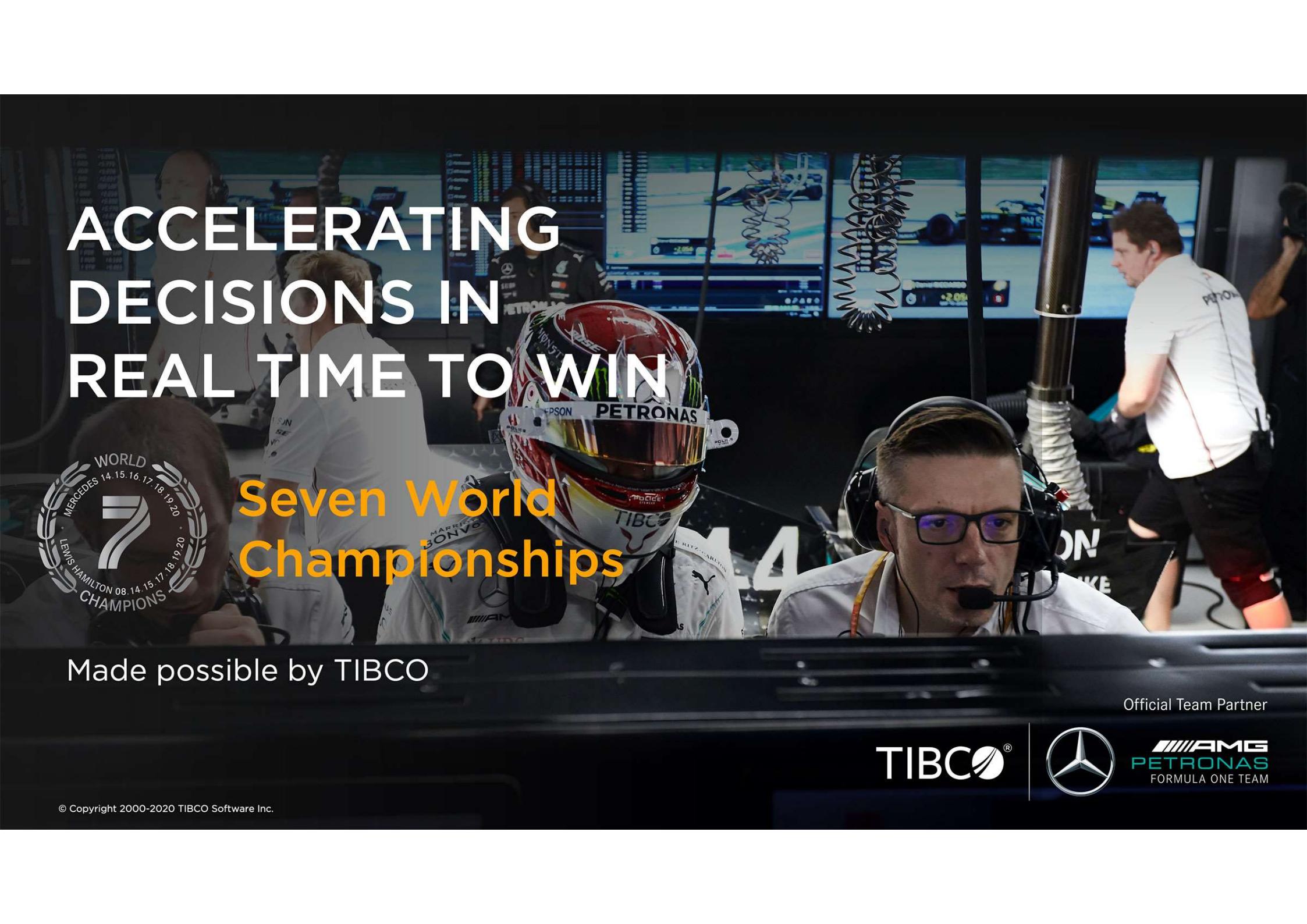
PROTECTING THE SCOTTISH LANDSCAPE FROM POLLUTION

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Scottish Environment
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Seven World Championships

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An aerial photograph of a city during sunset or sunrise. The sky is a warm orange and yellow. In the distance, a large body of water meets a range of mountains. The city below is densely populated with houses, streets, and some larger commercial buildings. The overall atmosphere is peaceful and scenic.

Thank you
#BETTERTOGETHER

