



TIBCO Spotfire

Guest Lecture at Software Quality and Testing Course

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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.

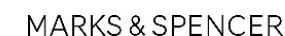
Predict

confidently with real-time
data-driven intelligence.



About TIBCO

TIBCO Software unlocks the potential of real-time data for making faster, smarter decisions. Our Connected Intelligence Platform seamlessly connects any application or data source; intelligently unifies data for greater access, trust, and control; and confidently predicts outcomes in real time and at scale. Learn how solutions to our customers' most critical business challenges are made possible by TIBCO at www.tibco.com.



Founded in 1997

Based in Palo Alto, California

Present in 30+ countries

4000+ employees

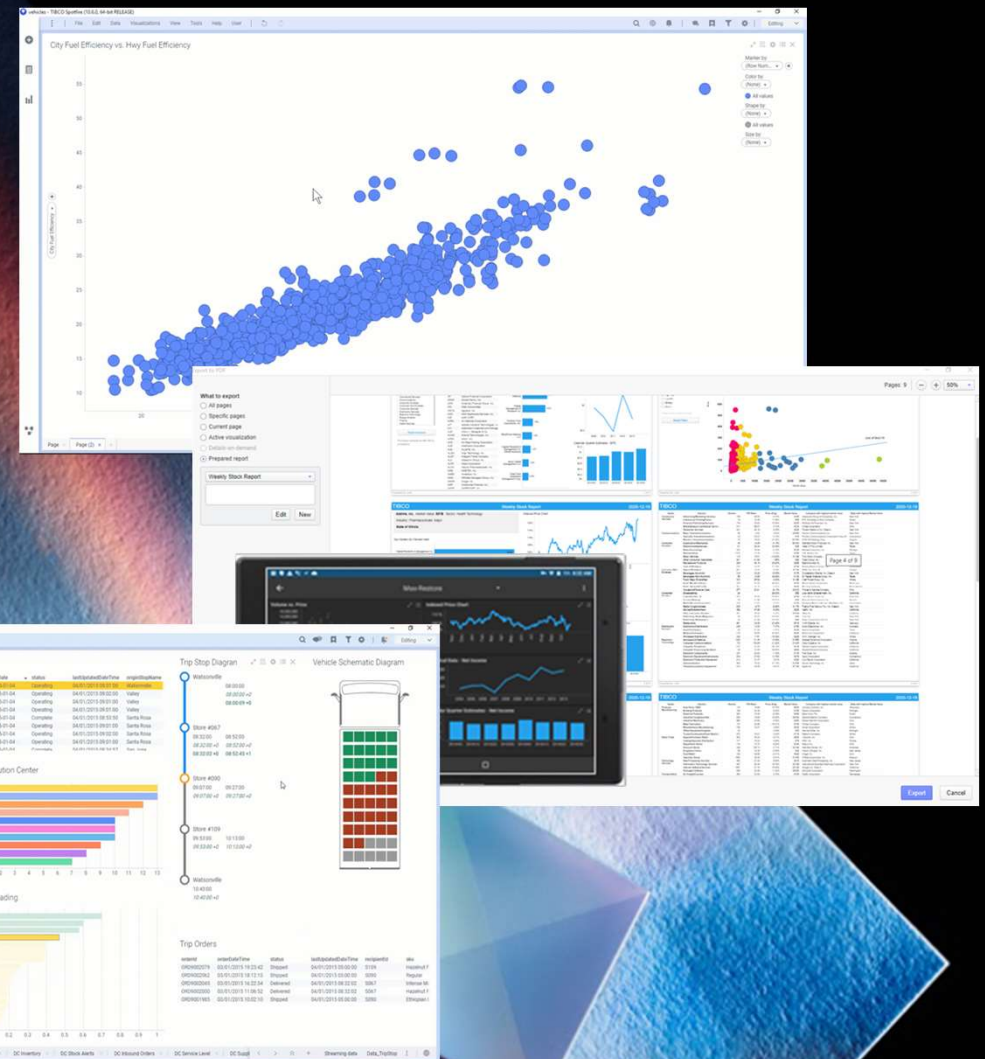
10000+ customers



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.



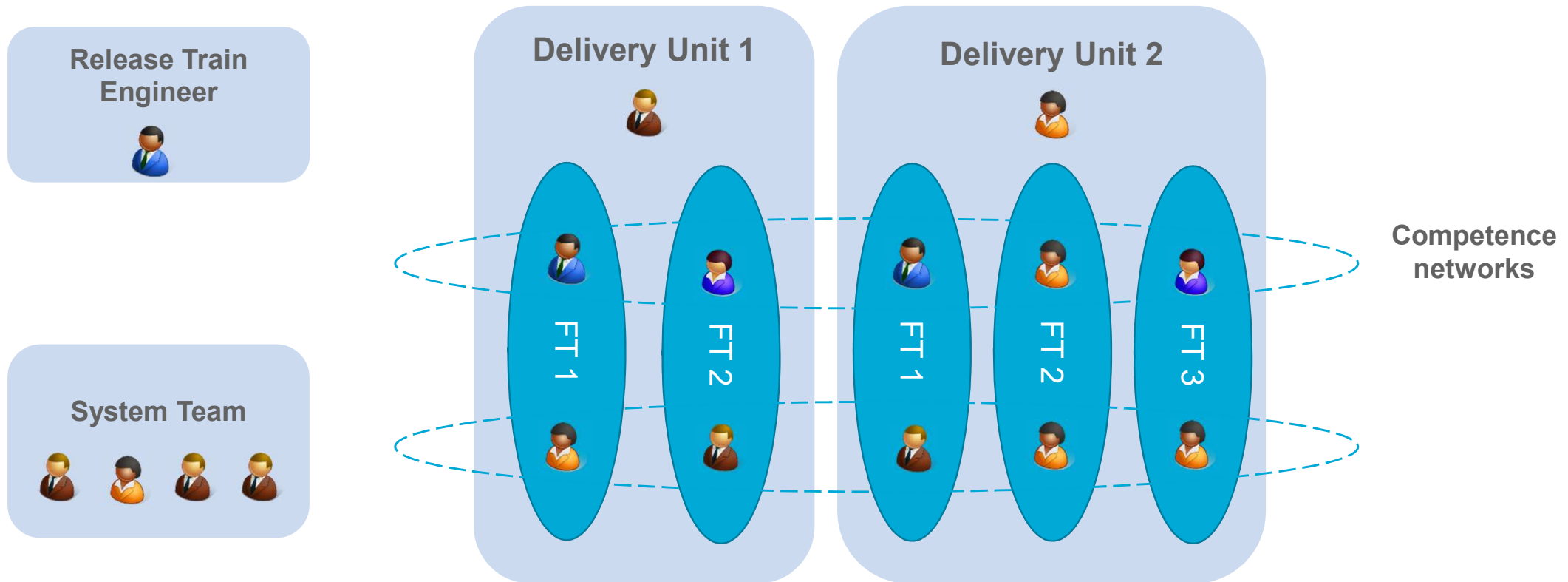
Spotfire Engineering

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

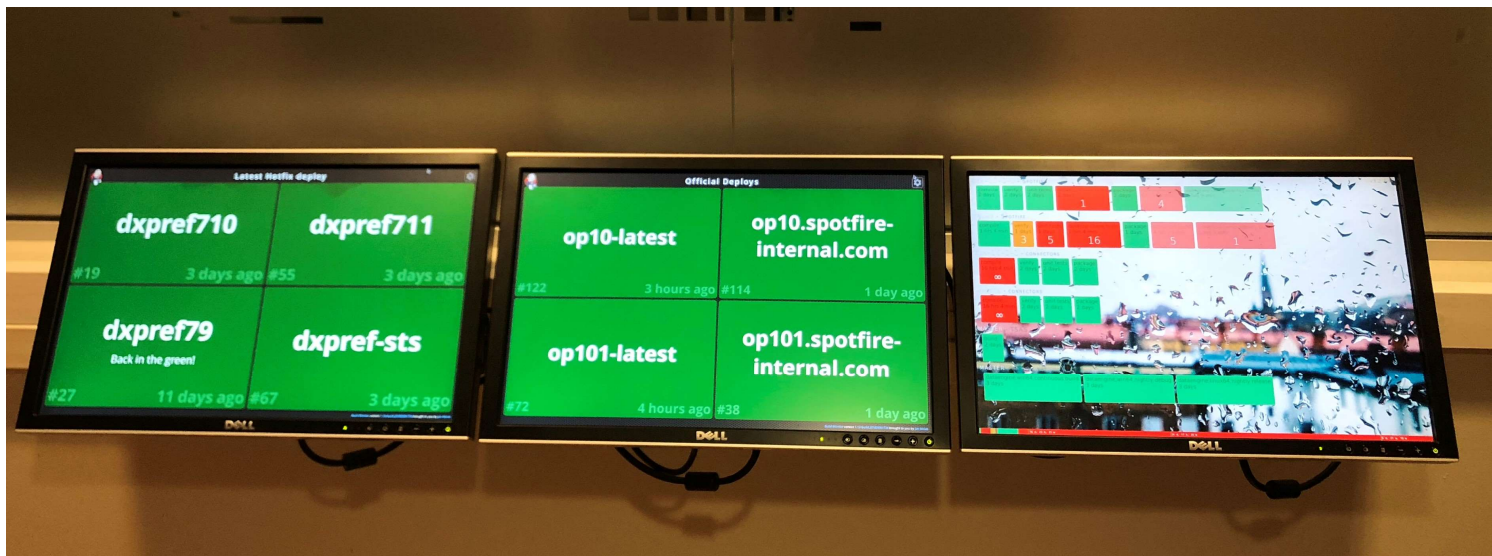
2-week sprints

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

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						
						<div><div>TS-42648</div><div>Hotfix 10.6 Python execution hangs on verbose python script</div><div>Support Case Container for DM</div></div>
* Data wrangling insight - Eliminate blanks 13 issues						
<div><div>TS-62025</div><div>Create icons for "Trim", "MostCommonCasing" and "multiple whitespace" insights</div><div>Data wrangling insight - Eliminate bla</div></div>	<div><div>TS-62027</div><div>Decide on and implement the Preview text for the Trim and MostCommonCasing insights</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62030</div><div>Separate License for Data Action Insights</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62031</div><div>Investigate Tools->Options text regarding "background recommendations"</div><div>Data wrangling insight - Eliminate bla</div></div>	<div><div>TS-62024</div><div>Investigate and Implement Priority system for insights</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62028</div><div>Performance tests</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62200</div><div>Empty state message on extended data layout recommendations tab needs to be updated to encompass data insights</div><div>Data wrangling insight - Eliminate bla</div></div>		<div><div>TS-61993</div><div>Message about Relationships needs to be extended to encompass all kinds of data insights</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62029</div><div>Write unit tests for non-final-table cases</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62436</div><div>No ProgressDescription for applying action insight</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62633</div><div>"Update..." link in Recommendations does not work</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62425</div><div>Recurseify @-@-strings</div><div>Data wrangling insight - Eliminate bla</div></div> <div><div>TS-62489</div><div>Update insights on replace data table/data source and on application of insights</div><div>Data wrangling insight - Eliminate bla</div></div>		
* DM Improvements 1 issue						
				<div><div>TS-66042</div><div>Enable column name editing in the "Edit calculated column" dialog</div><div>DM Improvements</div></div>		
* Issues without epics 9 issues						
	<div><div>TS-61322</div><div>Date Difference in terms of "Month" column should be of Integer data type.</div></div> <div><div>TS-62427</div><div>Crash (Access Violation) when performing many steps in a customer analysis file</div></div>	<div><div>TS-61980</div><div>Miniature visualizations may show incorrect values after evaluation/rendering is cancelled.</div></div> <div><div>TS-59556</div><div>Mapshup analysis intermittently crashes</div></div>		<div><div>TS-305</div><div>Layout - [CHS] - [Client] - "input parameter name" input field frame display missed blue line on "Input Parameter" dialog</div></div>	<div><div>TS-62465</div><div>Opening a local file that uses the Import Settings prompt fails to select default encoding so cannot read the data</div></div> <div><div>TS-62470</div><div>Not possible to ignore rows when importing a CSV file</div></div>	

About this analysisTest Status for TS-49553Review Test CasesIssues

This analysis shows the test status for Epic/Story

TS-49553

Name

Internal: Build a connector to Streambase

Description

OWNER:NUMBERNT
design-proposal-url: <http://get-sp02/engineering/ProductDocumentsGothenburg/Product%20Documents/Design%20Proposals/Design%20Proposal%20-%20Spotfire%20StreamBase%20Integration.pptx >

Build a snapshot based connector to streambase so that we can get data from streambase into spotfire

SIIDID

49202

Last execution status for test cases

TestID	Status	Descri...	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...
809667	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	
809488	Failed		12/28/2017 1:53:32 PM	LDM.Historian.BadNeighborhood	Validate that the functionality works together with other functionality
809485	Passed		12/19/2017 12:34:39 PM	LDM.Globetrotter.Landmark.Analyst	The steps can be executed in any order
809472	Passed		12/19/2017 9:52:33 AM	LDM.Globetrotter.Collector.Supported versions	Verify that data can be collected from various Streambase versions
809482	Failed		12/13/2017 1:27:50 PM	LDM.Globetrotter.Collector.Prompt.Types.Variables	
809474	Passed		12/11/2017 11:49:22 AM	LDM.Globetrotter.Collector.DataPanel functionality	Exploratory testing around the settings that can be done in the data panel on column level -
809473	Passed		12/6/2017 1:16:43 PM	LDM.Globetrotter.Collector.DataOverview functionality	Exploratory testing around the settings that can be done in the data overview on table level -
809456	Passed		12/6/2017 12:04:41 PM	LDM.Anti-social	Verify that unexpected behaviours are being handled in a proper way
809462	Passed		11/15/2017 10:10:38 AM	LDM.Globetrotter.Collector.Data Connection functionality	Use as many functions as possible that are available in the Data Connection dialogue.
809470	Passed		11/10/2017 9:56:20 AM	LDM.Globetrotter.Collector.Add data	Verify different ways to add data from LDM
809487	Failed		11/8/2017 10:20:27 AM	LDM.Globetrotter.Landmark.Manage data connections	Verify that the predefined data sources and connections can be used.
809147	Failed		11/7/2017 1:18:46 PM	LDM.Globetrotter.Collector.Streambase.functions.BSON	- Verify the different Streambase functions of category BSON. A complete list of functions can be found at https://docs.g...
809526	Failed		11/2/2017 3:02:15 PM	LDM.Terrorist.Document properties	Validate the handling of document properties in various situations. Use invalid values and types.
809158	Failed		11/1/2017 1:56:35 PM	LDM.Globetrotter.Collector.Streambase.functions.Unsupported	- Verify the handling of unsupported Streambase functions. A complete list of functions can be found at https://docs.goo...
809157	Passed		11/1/2017 1:12:54 PM	LDM.Globetrotter.Collector.Streambase.functions.Windowing	- Verify the different Streambase functions of category windowing. A complete list of functions can be found at https://do...
809156	Passed		11/1/2017 11:44:02 AM	LDM.Globetrotter.Collector.Streambase.functions.Utilities	- Verify the different Streambase functions of category utilities. A complete list of functions can be found at https://docs....
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 htt...
809154	Failed		10/30/2017 3:39:06 PM	LDM.Globetrotter.Collector.Streambase.functions.Timestamps	- Verify the different Streambase functions of category timestamps. A complete list of functions can be found at https://d...
809152	Failed		10/18/2017 11:01:23 AM	LDM.Globetrotter.Collector.Streambase.functions.Statistical Calculations	- Verify the different Streambase functions of category Statistical calculations. A complete list of functions can be found ...
809151	Failed		10/18/2017 8:52:05 AM	LDM.Globetrotter.Collector.Streambase.functions.NaN	- Verify the different Streambase functions of category NaN (Not a number). A complete list of functions can be found at...
809148	Failed		10/13/2017 7:18:04 AM	LDM.Globetrotter.Collector.Streambase.functions.Financial	- Verify the different Streambase functions of category Financial. A complete list of functions can be found at https://doc...
809153	Failed		10/11/2017 12:48:26 PM	LDM.Globetrotter.Collector.Streambase.functions.Strings	- Verify the different Streambase functions of category strings. A complete list of functions can be found at https://docs.g...
809457	Failed		10/5/2017 3:13:46 PM	LDM.Anti-social.ObsessiveCompulsive	
809149	Failed		10/5/2017 2:26:39 PM	LDM.Globetrotter.Collector.Streambase.functions.Math	- Verify the different Streambase functions of category Math. A complete list of functions can be found at https://docs.go...
809483	Failed		9/29/2017 11:26:33 AM	LDM.Globetrotter.Collector.Visualizations	Verify that LDM data can be used in various visualizations
809146	Failed		9/29/2017 10:13:17 AM	LDM.Globetrotter.Collector.Data Types	- Verify the different data types and that they get a good matching type in Spotfire Consider: - min, max and null values...
809159	Not Executed			LDM.Globetrotter.Collector.Streambase.functions.Reduced	- Execute a Streambase function of each category. This is a reduced version of the other Streambase Globetrotter Colle...
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	
809486	Not Executed			LDM.Globetrotter.Landmark.BusinessAuthor	The steps can be executed in any order
809491	Not Executed			LDM.Terrorist.Rainedout	Interrupt and redo the same steps. - Both when waiting for input and when the system is working.
809492	Not Executed			LDM.Terrorist.Saboteur	Improvise in your own way and try to fail the Streambase Connector - If a potential security hole is found, do NOT file a bug...

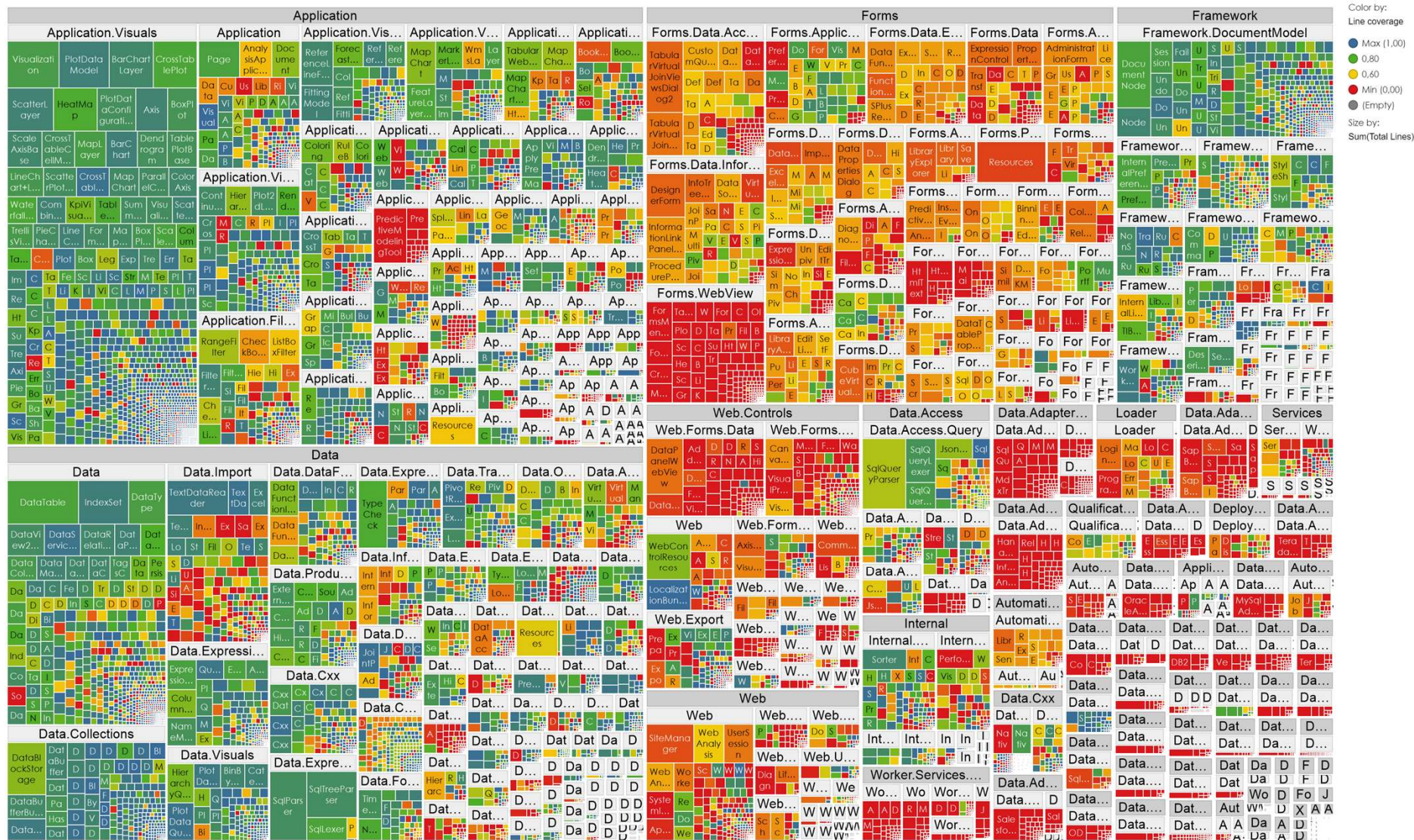
Ready

External dataRequirement

TIBCO®

Live demo of Spotfire X

Unit test code coverage analysis



PROTECTING THE SCOTTISH LANDSCAPE FROM POLLUTION

**Built industry partnerships with
fact-based analytics, driving 40%
improvement in compliance**

Made possible by TIBCO



ACCELERATING DECISIONS IN REAL TIME TO WIN



Seven World
Championships

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FORMULA ONE TEAM



Thank you
#BETTERTOGETHER

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