



Intro to Statistica 13.3

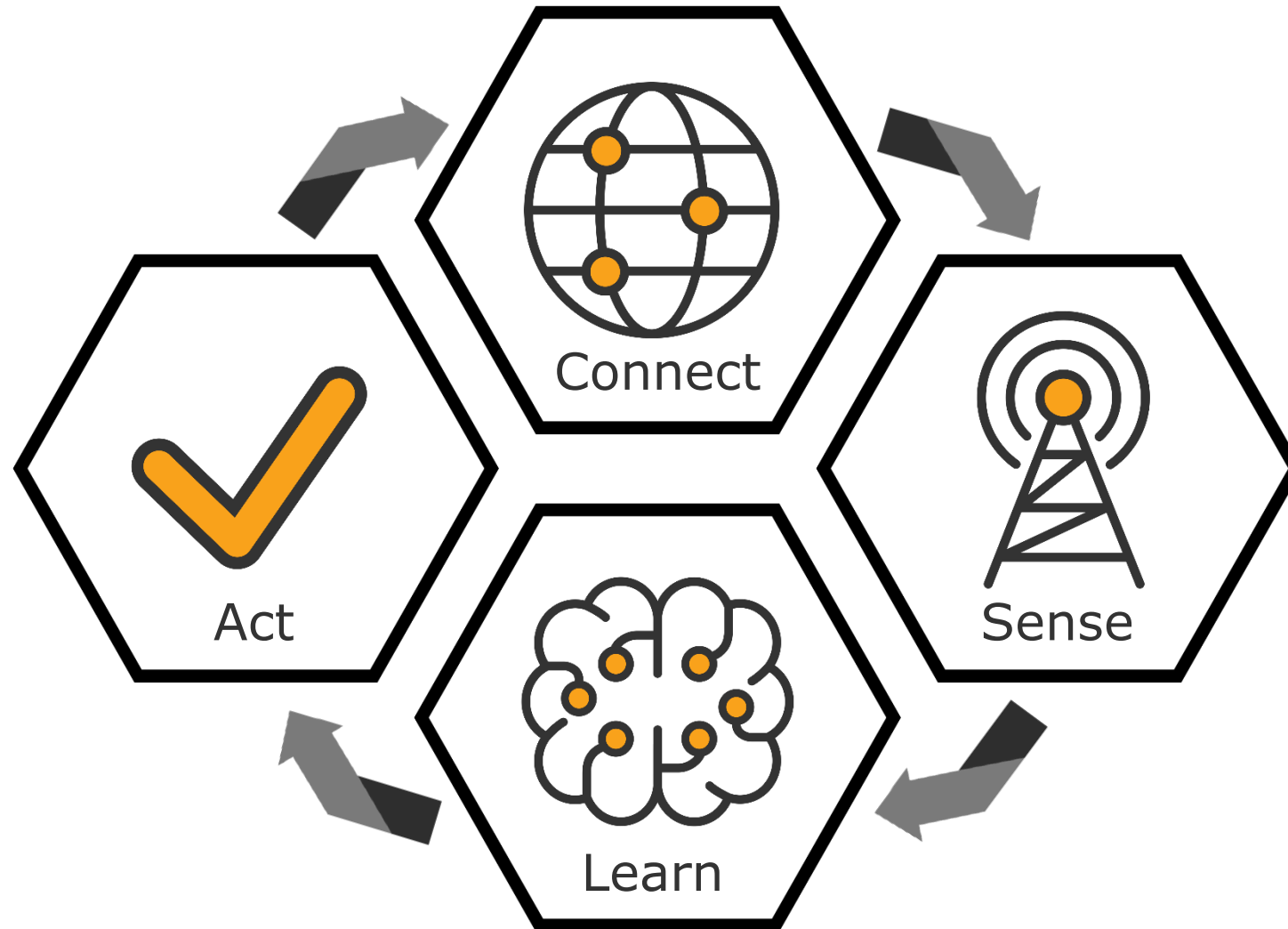
TIBCO Analytics

23 Oct 2017



**CONNECTED
INTELLIGENCE**

Connected Intelligence



AUGMENT INTELLIGENCE

Visual analytics



Streaming analytics



Data and systems

CONNECTED INTELLIGENCE



Embedded Analytics

APIs



People and processes

INTERCONNECT
EVERYTHING

Connected Intelligence connects businesses to their data, wherever it is, and augments their ability to understand, decide, and act on their context.

One stop shop for actionable insights



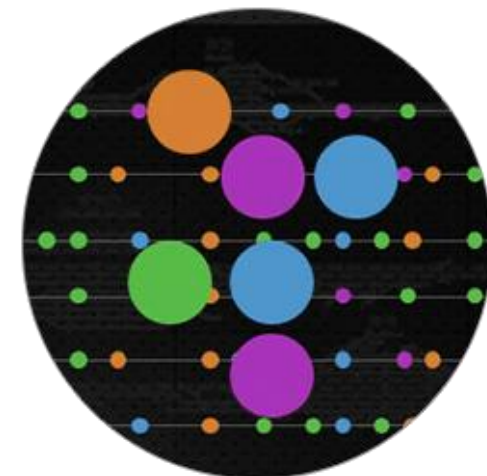
BI & ANALYTICS

AI-driven visualization
to gain insight to
find actionable
insights



DATA SCIENCE

Create analytics that
can predict the future
based on history



STREAMING ANALYTICS

Provide analytics and
take action on real
time streaming data

**Established
in 1984**

Deep
understanding of
analytics

**Open
Standards**

Avoids vendor
lock

**World Class
Customers**

All industries, across
all sectors

TIBCO Statistica™

**Comprehensive
& Integrated**

Thousands of built-
in functions

Easy to Use

Empowers all
experts and non-
experts alike

**Flexible &
extensible**

Not a black-box,
fits in your
environment

Comprehensive Analytics Platform

Easy to use predictive analytics

with built-in smarts to enable your workforce



Access and prepare, any data, anywhere

Using databases, cloud, and Apache® Hadoop® sources



Open, flexible, & extensible

R, Python, Scala, in-database or at the edge



Real-time analytics

to process high-volume, streaming data



Collaborate & share

insights and best practices across geographies



Combine rules & analytics

to make prescriptive business decisions



Security & governance

for a well managed approach to analytics.



Analytics are used everywhere for competitive advantage

ENERGY	FINANCE & INSURANCE	HEALTHCARE	PHARMACEUTICAL	MANUFACTURING
Optimize exploration, production, and operations while anticipating demands <ul style="list-style-type: none">• Demand forecasting• Distribution optimization• Emissions reduction• Ground composition analysis• Predictive maintenance• Reservoir characterization• and more	Reduce risks and detect fraud <ul style="list-style-type: none">• Credit scoring• Customer analytics• Fraud detection• Risk management• Churn analysis• SOX• Scorecard• and more	Improve quality of care and efficiency <ul style="list-style-type: none">• Fraud detection• Claims management• Patient safety• Risk mitigation• Personalized medicine• and more	Ensure safety and product quality <ul style="list-style-type: none">• Product traceability• Stability & shelf life Analysis• Validated reporting & analytics• Compliance• Manufacturing analytics• and more	Optimize processes, improve quality, and monitor suppliers <ul style="list-style-type: none">• Improve yields• Reduce scrap, rework, & recalls• Detect warranty fraud• Regulatory compliance & safety• Predict & equipment failures• and more

Statistica™: 30+ Years of Business Use



50%
Reduction
in Time to
Create and
Deploy
Models



Predict
critical mfg
process
excursions




Deployment time ↓
from 9 months to 1
day with Citizen
Data Scientists



\$100M+
saved, #
of users
↑ from
200 to
400



Insurance
claims
prediction &
fraud detection



58%
Reduction in
Surgical Site
Infections



Predictive and
preventative
maintenance

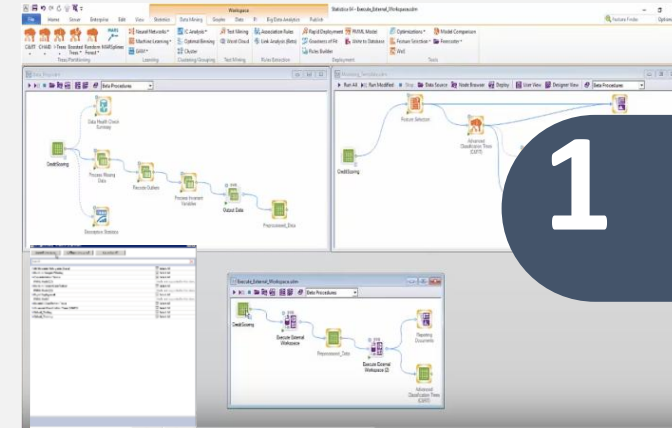


Used by 7 of
top 10 pharma

Scale Analytics with Reusable Data Science

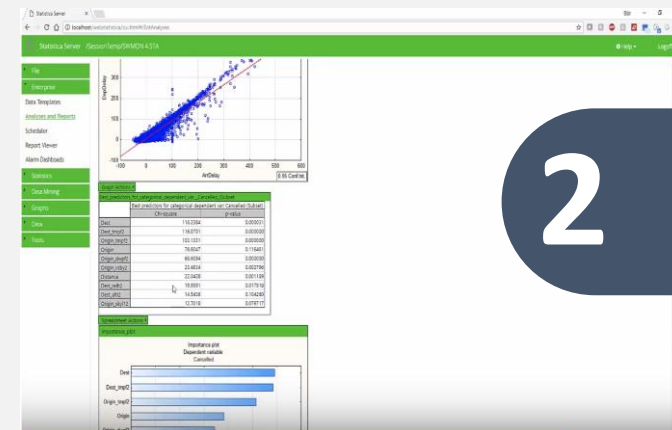
Facilitate reusable data science backed by governance

- Create reusable templates
 - Build complex analytic and data prep workflows once, then share with others
- Automate the mundane
 - Automated data health check, data mining recipes, and simplified deployment
- Collaborate and share
 - Annotate workflows and ensure trust, security, and privacy with model management and governance



1

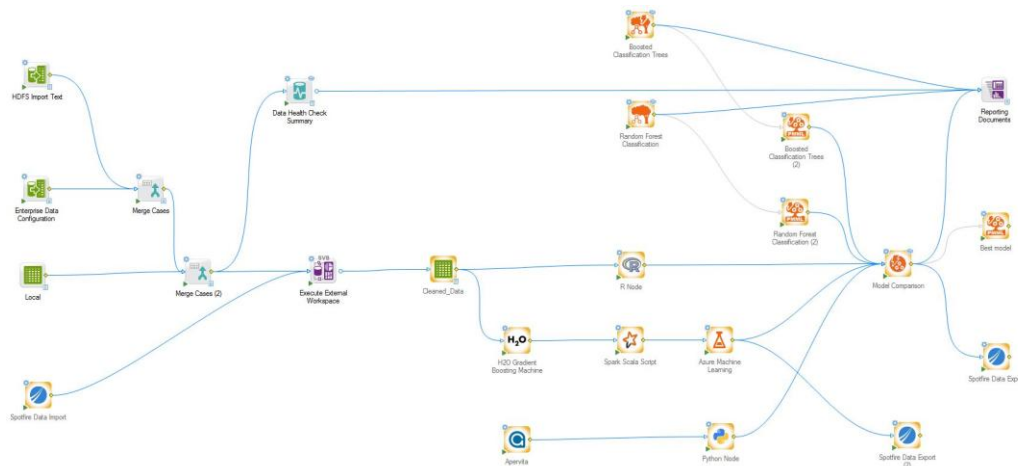
Designer creates reusable template and decides which parameters to expose in a workflow



2

Citizen Data Scientist Selects analysis and items of interest, runs analysis workflow

STATISTICA WORKSPACE



Accelerate Innovation with Data Science

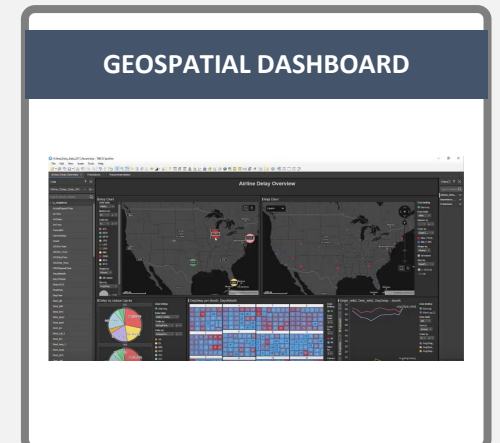
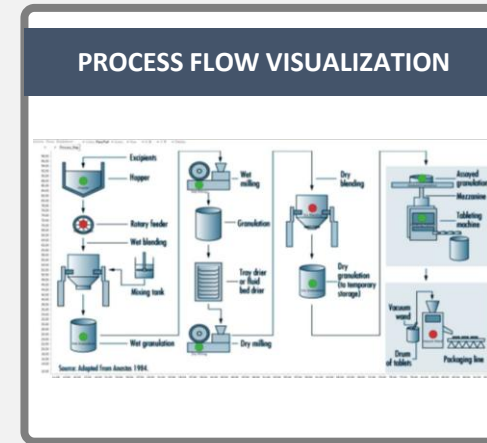
Make innovation easy with smart, flexible, and comprehensive analytics

- Create innovative models
 - Use the latest deep learning, predictive, prescriptive, AI, and analytical technique
- Rapidly prototype new techniques
 - Use one of the thousands of built-in analytics, code in open source, or access algorithm marketplaces
- Capabilities
 - Thousands - of drag and drop nodes
 - Algorithmia – marketplace for algorithms
 - Apervita® – democratizing healthcare analytics
 - Microsoft Azure® ML – cloud based analytics
 - Microsoft® Cognitive Toolkit – deep learning framework
 - Open Source - R, Python, Scala, C#
 - Apache Spark™ MLlib
 - H2O and Sparkling Water
 - Amazon S3™

Infuse Algorithms Everywhere

Deploy deep insights for a competitive advantage

- Tell data-driven stories
 - Compelling visualizations that the business can trust, understand, and act upon
- Use a common platform
 - Ingest, clean, prepare, model, visualize, operationalize, and monitor analytics
- Deliver actionable insights at the point of impact
 - Deploy insights in hybrid ecosystems: on premise, in the cloud, and in IoT environments



What's New: Statistica 13.3

- **Integration with TIBCO**

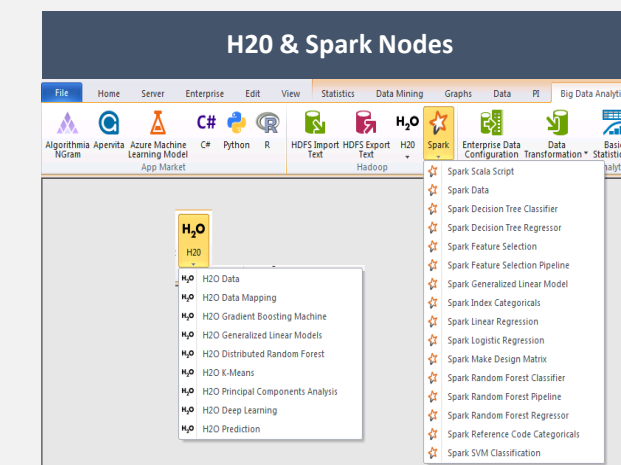
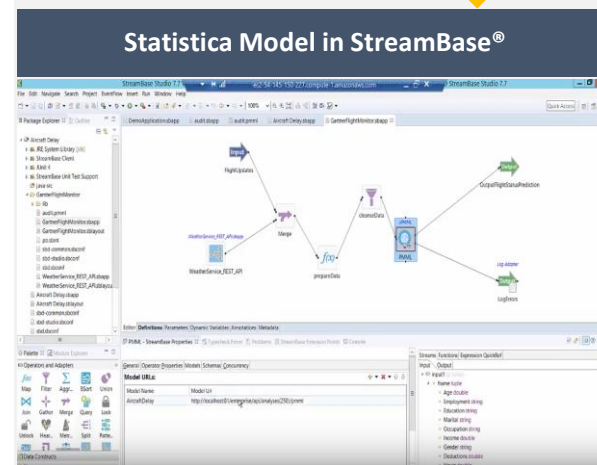
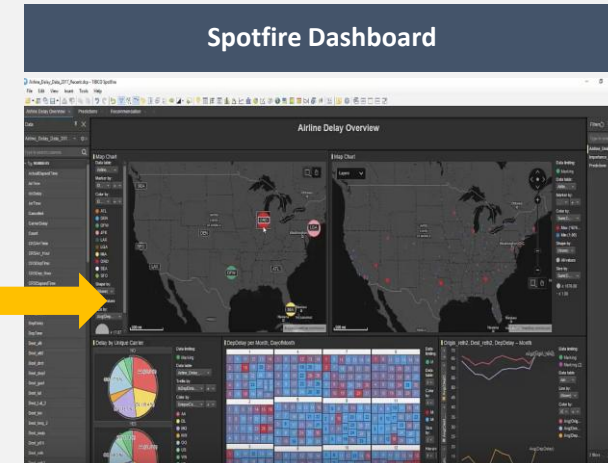
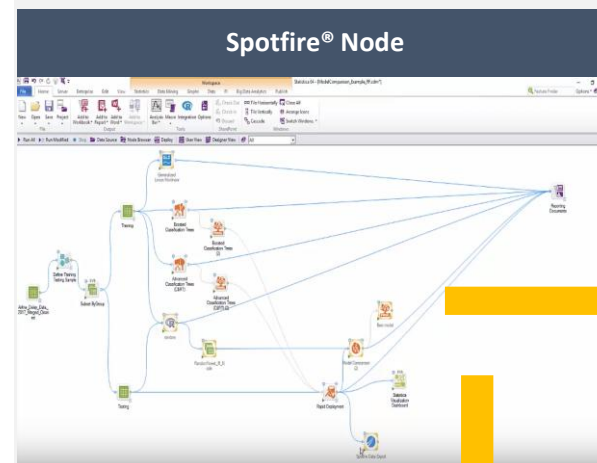
- Ability to read/write TIBCO Spotfire® SPDF files
- TIBCO StreamBase® integration

- **Analytics**

- H2O Distributed Random Forest, K-Means, Principal Components Analysis, Deep Learning
- Spark Decision Tree Classifier, Decision Tree Regressor, Feature Selection, Generalized Linear Model, Linear Regression, Logistic Regression, Random Forest, SVM
- Fit Johnston Distribution by CPM - used to accurately characterize a process
- Correspondence Analysis - simple and multiple correspondence analysis (MCA) can analyze data with fractional weights
- Alternating Least Squares - matrix factorization method designed to handle big data
 - Used for recommender systems, text mining, impute missing data
- Weight of Evidence node enhancements

- **General**

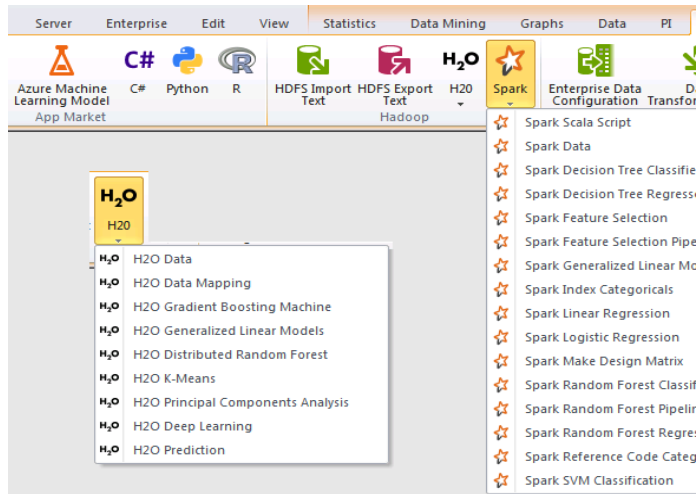
- PI Asset Framework integration
- Model Comparison node
- Improved reporting capability
- Dynamic filtering capability in Enterprise Manager



Scale Data Science with Statistica

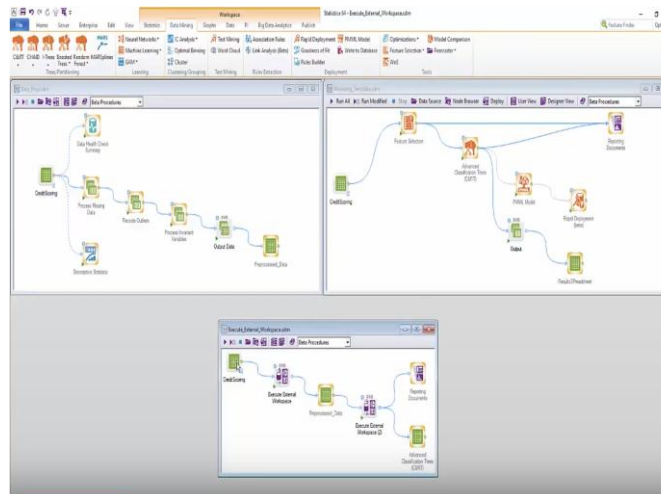
Accelerate innovation with Data Science

Make innovation easy with smart, flexible, and comprehensive analytics



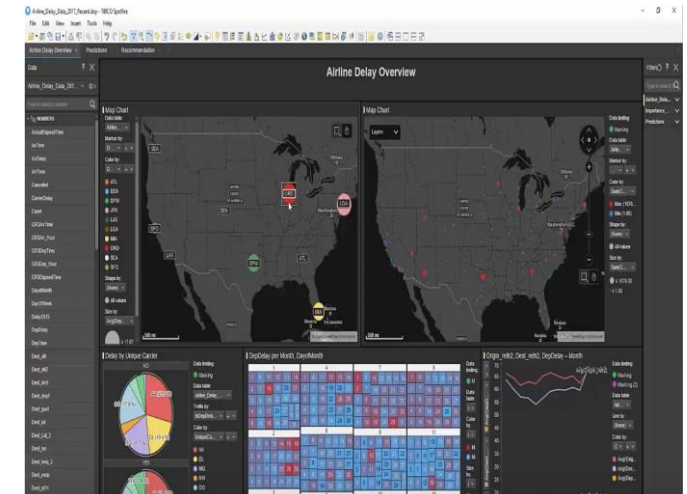
Scale Advanced Analytics Across the Business

Facilitate reusable data science fortified with governance



Infuse Algorithms Everywhere

Deploy deep insights for a competitive advantage.



Thank You!

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