2017 Fall Summit
Opening and Introduction

Michael Berthold

KNIME

#KNIMESummit2017
Noteworthy News...
2017 News...

• March: €20M investment by Invus
• April: Analyst Recognition
Analyst Recognition

Gartner 2017 MQ for Data Science Platforms
Forrester 2017 Wave: Predictive Analytics and Machine Learning Solutions
Community Recognition

**TOOL SATISFACTION**

<table>
<thead>
<tr>
<th>Tool</th>
<th>10%</th>
<th>20%</th>
<th>30%</th>
<th>40%</th>
<th>50%</th>
<th>60%</th>
<th>70%</th>
<th>80%</th>
<th>90%</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNIME (commercial &amp; free)</td>
<td>69%</td>
<td>24%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IBM SPSS Modeler</td>
<td>60%</td>
<td>34%</td>
<td>4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>57%</td>
<td>38%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STATISTICA</td>
<td>50%</td>
<td>43%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weka</td>
<td>40%</td>
<td>55%</td>
<td>5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RapidMiner (free version)</td>
<td>32%</td>
<td>59%</td>
<td>9%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAS Enterprise Miner</td>
<td>29%</td>
<td>63%</td>
<td>8%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAS</td>
<td>20%</td>
<td>63%</td>
<td>13%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IBM SPSS Statistics</td>
<td>15%</td>
<td>73%</td>
<td>10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rexer Analytics Data Science Survey

© 2017 KNIME AG. All Rights Reserved.
2017 News...

- March: €20M investment by Invus
- April: Analyst Recognition
- May: KNIME Inc. Opens Door in Austin
  - Jim Falgout starts the Austin team
  - Jeff Gullick joins the Austin team
  - ... joins...?
- July:
  - KNIME 3.4
  - Open Sourcing of Productivity Extensions
- August, September, October: “just work”
- November: Fall Summit
A Peak into the Future

• December (6th...):
  – KNIME 3.5
  – Open Sourcing of Big Data Extensions

• March, 4-8, 2018: Spring Summit, Berlin, Germany.

• July 2018: new releases...
The (New) KNIME Software Ecosystem
The KNIME Software Ecosystem

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Open Source Extensions

KNIME® Analytics Platform

Community & Partner Extensions

Chem- & Bioinf, Data Providers, Signal Processing, ...

© 2017 KNIME AG. All Rights Reserved.
KNIME Analytics Platform

for...

...Algorithm Developers,
...Script-Loving Data Analysts,
...Data Wranglers,
...and Casual Workflow Recyclers.
and all the others?

what about...

...supporting Teams,

...helping Business Analysts & Upper Management,

...and making Compliance & IT Managers happy?
The KNIME Software Ecosystem

- R & Python, Big Data, Deep Learning
- Text Processing, Image Analysis, High Speed ML

Open Source Extensions

KNIME® Analytics Platform

Community & Partner Extensions

- Chem- & Bioinf, Data Providers, Signal Processing,

KNIME® Server

- on Premise
- in the Cloud

Deployment:
- to Applications
- to Humans

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management
“Well, give me some examples!”
(nervous attendee, KNIME Fall Summit 2017)
**Fall Summit Coverage**

---

**Thursday, 2pm:**
**Insights from 20+ years of driving insights into business action**
Joe Porter (Flywheel Digital)

---

**Friday, 2:30pm:**
**Citizen Data Science Initiative at Seagate**
Allan Luk (Seagate Technology)

---

**KNIME®**

- Open Source
- Extensions
- KNIME Server - on Premise - in the Cloud
- Community & Partner Extensions

---

**R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML...**

---

**Collaboration:**
- Compliance
- Best Practices
- Sharing Expertise

**Automation:**
- Scheduling
- (Model) Management

**Deployment:**
- to Applications
- to Humans

---

© 2017 KNIME AG. All Rights Reserved.
Fall Summit Coverage

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Thursday, 4pm:
**KNIME and the Social Network for Data People**
Rafael Pereira (data.world) & Davin Potts (Appliomics)

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management

Deployment:
- to Applications
- to Humans
Fall Summit Coverage

Thursday, 5pm:
**Automated Data Analysis for HV Batteries with KNIME**
Maximilian Mücke (ACC Umotive/Daimler) & Patryk Koryzna (DATATRONIQ)

**KNIME® Server**
- on Premise
- in the Cloud

**Collaboration:**
- Compliance
- Best Practices
- Sharing Expertise

**Automation:**
- Scheduling
- (Model) Management

**Deployment:**
- to Applications
- to Humans
Fall Summit Coverage

Open Source Extensions

KNIME® Analytics Platform

Community & Partner Extensions

KNIME® Server

- on Premise
- in the Cloud

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Chem- & Bioinf, Data Providers, Signal Processing, ...

Thursday, 5:30pm:
From Automating Models to Model Factories
Iris Adä & Phil Winters (KNIME)

- Best Practices
- Sharing Expertise

Deployment:
- to Applications
- to Humans

- (Model) Management
Fall Summit Coverage

Friday, 9:30am:
The Matched Molecular Pairs Application, or KNIME to UNIX and Back Again
Man-Ling Lee (Genentech)

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Open Source Extensions

KNIME® Analytics Platform

Community & Partner Extensions

KNIME® Server - on Premise - in the Cloud

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management

Deployment:
- to Applications
- to Humans

Chem- & Bioinf, Data Providers, Signal Processing, ...

Deployment:
- to Applications
- to Humans

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management

Deployment:
- to Applications
- to Humans

Chem- & Bioinf, Data Providers, Signal Processing, ...

Fall Summit Coverage

Friday, 9:30am:
The Matched Molecular Pairs Application, or KNIME to UNIX and Back Again
Man-Ling Lee (Genentech)

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Open Source Extensions

KNIME® Analytics Platform

Community & Partner Extensions

KNIME® Server - on Premise - in the Cloud

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management

Deployment:
- to Applications
- to Humans

Chem- & Bioinf, Data Providers, Signal Processing, ...

Deployment:
- to Applications
- to Humans

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management

Deployment:
- to Applications
- to Humans

Chem- & Bioinf, Data Providers, Signal Processing, ...
Friday, 10am:

**KNIME@HiTIF: Bioimaging Workflows for Looking Inside Cells**
Prabhakar R. Gudla (National Cancer Institute, National Institutes of Health)

**Moving past pixie dust to pixel math:**
leveraging large scale bioimage processing to predict patient survival
Andries Zijlstra (Vanderbilt University Medical Center)
Fall Summit Coverage

Friday, 11:30am:
**KNIME Deep Dive: Deep Learning (and some Images)**
Christian Dietz (KNIME)

**Open Source Extensions**

**Analytics Platform**

**KNIME® Server**
- on Premise
- in the Cloud

**Collaboration:**
- Compliance
- Best Practices
- Sharing Expertise

**Automation:**
- Scheduling
- (Model) Management

**Deployment:**
- to Applications
- to Humans

Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Chem- & Bioinf, Data Providers, Signal Processing, ...

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Deployment: to Applications to Humans

Collaboration: Compliance Best Practices Sharing Expertise

Automation: Scheduling (Model) Management

Deployment: on Premise in the Cloud
Fall Summit Coverage

Friday, 2pm:
**Integrating High Performance Machine Learning: H2O and KNIME**
Mark Landry (H2O) & Christian Dietz (KNIME)

**KNIME® Server**
- on Premise
- in the Cloud

**Extensions**

**Collaboration:**
- Compliance
- Best Practices
- Sharing Expertise

**Automation:**
- Scheduling
- (Model) Management

**Deployment:**
- to Applications
- to Humans

R & Python, Data Providers, Signal Processing, ...
Chem- & Bioinf, Text, Image, High Speed ML, ...

© 2017 KNIME AG. All Rights Reserved.
Fall Summit Coverage

Thursday, 3pm:
**Guided Analytics in Action: “Your flight is boarding now!”**
Rosaria Silipo & Vincenzo Tursi (KNIME)

Friday, 12:30pm:
**Guided Analytics in Action: Census and Sensibilities**
Greg Landrum (KNIME)

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management

Deployment:
- to Applications
- to Humans

R & Python, Text, Image, High Speed ML...
Fall Summit Coverage

Open Source Extensions

KNIME® Analytics Platform

Community & Partner

Chem- & Bioinf, Data Providers, Signal Processing, ...

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Thursday, 2:30pm:
**Workflows for Petroleum Exploration and Production**
David Wong (MMI Agency)

Friday, 12:00pm:
**Leveraging KNIME for Fire Analysis and Public Safety**
Mohammed Ayub (National Fire Protection Association)

...
Fall Summit Coverage

R & Python, Big Data, Deep Learning, Text Processing, Image Analysis, High Speed ML, ...

Open Source Extensions

KNIME® Analytics Platform

Community & Partner

Chem- & Bioinf, Data Providers, Signal Processing, ...

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

... Friday, 3pm:
Enhancing Internal Audit and Risk Effectiveness
Yusuf Moolla (Risk Insights)

Friday, 3:30pm:
Does it Blend Bingo
Rosaria Silipo & Team (KNIME)
Fall Summit Coverage

Open Source

KNIME® Analytics Platform

Community &

in just a few minutes...

What’s New (and Cooking) Sessions

Bernd Wiswedel, Tobias Kötter and the KNIME Team

KNIME® Server

- on Premise
- in the Cloud

Collaboration:
- Compliance
- Best Practices
- Sharing Expertise

Automation:
- Scheduling
- (Model) Management

Deployment:
- to Applications
- to Humans

R & Python,
Big Data,
Deep Learning
Text Processing,
Image Analysis,
High Speed ML,
...

Chem- & Bioinf,
Data Providers,
Signal Processing,
...

Fall Summit Coverage

© 2017 KNIME AG. All Rights Reserved.
Fall Summit at a Glance

Thursday November 2, 9:00 am – 5:45 pm, Amphitheatre 204, Level M2

9:00 am  Registration and Morning Coffee: Conference Break Area

KNIME Session I

10:00 am  Opening
          Michael Berthold (KNIME)

          What’s New in KNIME
          Bernd Wiswedel & Team (KNIME)

11:50 am  “Grab a Coffee or a Tea” Break: Conference Break Area

KNIME Session II

12:00 pm  What’s New in Big Data
          Tobias Kötter & Team (KNIME)

1:00 pm  Lunch Break - Tuscan Buffet: Tejas Conference Dining

Session 1

2:00 pm  Insights from 20+ years of driving insights into business action
          Joe Porter (Flywheel Digital)

2:30 pm  Workflows for Petroleum Exploration and Production
          David Wong (MMI Agency)

3:00 pm  Guided Analytics in Action: “Your flight is boarding now!”
          Rosaria Silipo & Vincenzo Tursi (KNIME)

3:30 pm  Coffee Break: Conference Break Area

Session 2

4:00 pm  KNIME and the Social Network for Data People
          Rafael Pereira (data.world) & Davin Potts (Appiliomics)

4:30 pm  Automated Data Analysis for HV Batteries with KNIME
          Maximilian Mücke (ACCumotive/Daimler) & Patryk Koryzna (DATATRONIQ)

5:00 pm  From Automating Models to Model Factories
          Iris Adà & Phil Winters (KNIME)

5:45 pm  End of Day 1

Friday November 3, 9:00 am – 4:00 pm, Amphitheatre 204, Level M2

9:00 am  Registration and Morning Coffee: Conference Break Area

Session 3

9:30 am  The Matched Molecular Pairs Application, or KNIME to UNIX and Back Again
          Man-Ling Lee (Genentech)

10:00 am  KNIME@HITIF: Bioimaging Workflows for Looking Inside Cells
          Prabhakar R. Gudia (National Cancer Institute, National Institutes of Health)

10:30 am  Moving past pixie dust to pixel math: leveraging large scale bioimage processing to predict patient survival
          Andries Zijlstra (Vanderbilt University Medical Center)

11:00 am  Coffee Break: Conference Break Area

Session 4

11:30 am  KNIME Deep Dive: Deep Learning (and some Images)
          Christian Dietz (KNIME)

12:00 pm  Leveraging KNIME for Fire Analysis and Public Safety
          Mohammed Ayub (National Fire Protection Association)

12:30 pm  Guided Analytics in Action: Census and Sensibilities
          Greg Landrum (KNIME)

1:00 pm  Lunch Break - Picnic Ziler Buffet: Tejas Conference Dining

Session 5

2:00 pm  Integrating High Performance Machine Learning: H2O and KNIME
          Mark Landry (H2O) & Christian Dietz (KNIME)

2:30 pm  Citizen Data Science Initiative at Seagate
          Allan Luk (Seagate Technology)

3:00 pm  Enhancing Internal Audit and Risk Effectiveness – a home loan analysis case study
          Yusuf Moolla (Risk Insights)

3:30 pm  Does it Blend Bingo
          Rosaria Silipo & Team (KNIME)

4:00 pm  Closing
          Michael Berthold (KNIME)
Logistics
(aka: where are the parties??)
Logistics

- Dinner tonight: Scholz (Bier!) Garden (KNIMERs will start leading the way at 6:43/6:47/6:51)

- Friday: Farewell Drinks @ 4pm
Thanks for Joining Us and Enjoy the Summit!