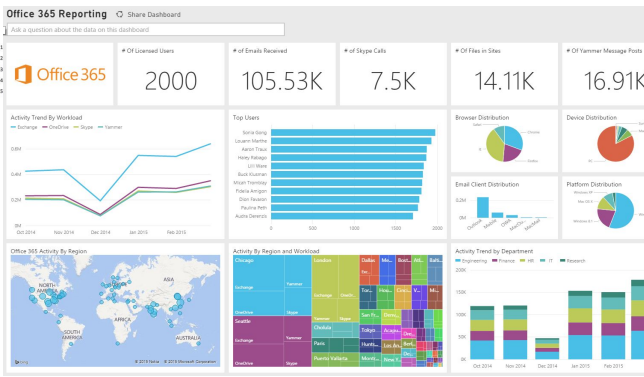
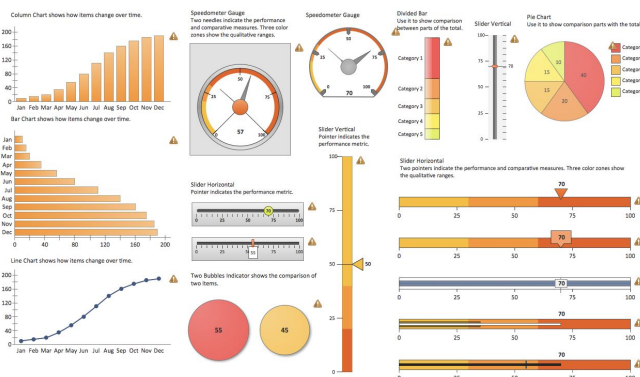
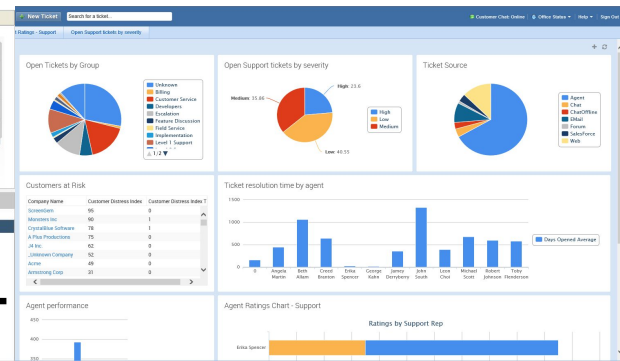
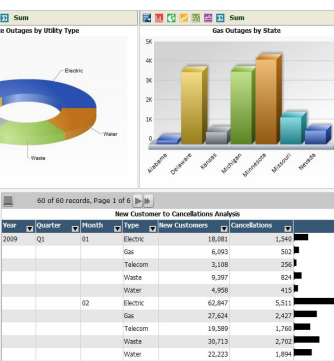
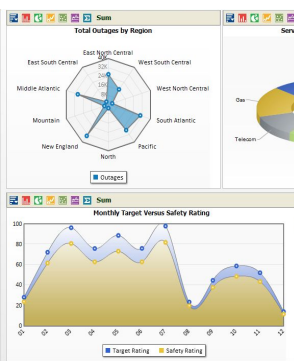
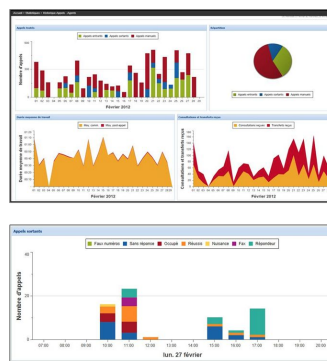
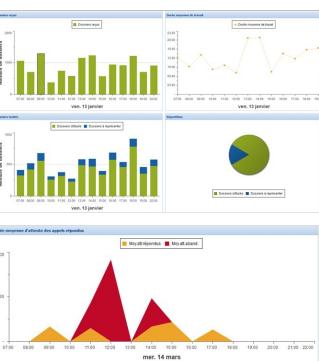


Artificial Intelligence and Conversational Assistants **Zelros**

27/06/2016 - Paris Data Business Meetup

christophe.bourguignat@zelros.com





The limits of traditional reporting

The CFO pain points

Excel reporting **over-complexity**

Difficulty to have **real-time** information

Bottlenecks. No self-service / easy to use financial data source



*Make Finance Operations become an active
business player in the organization*

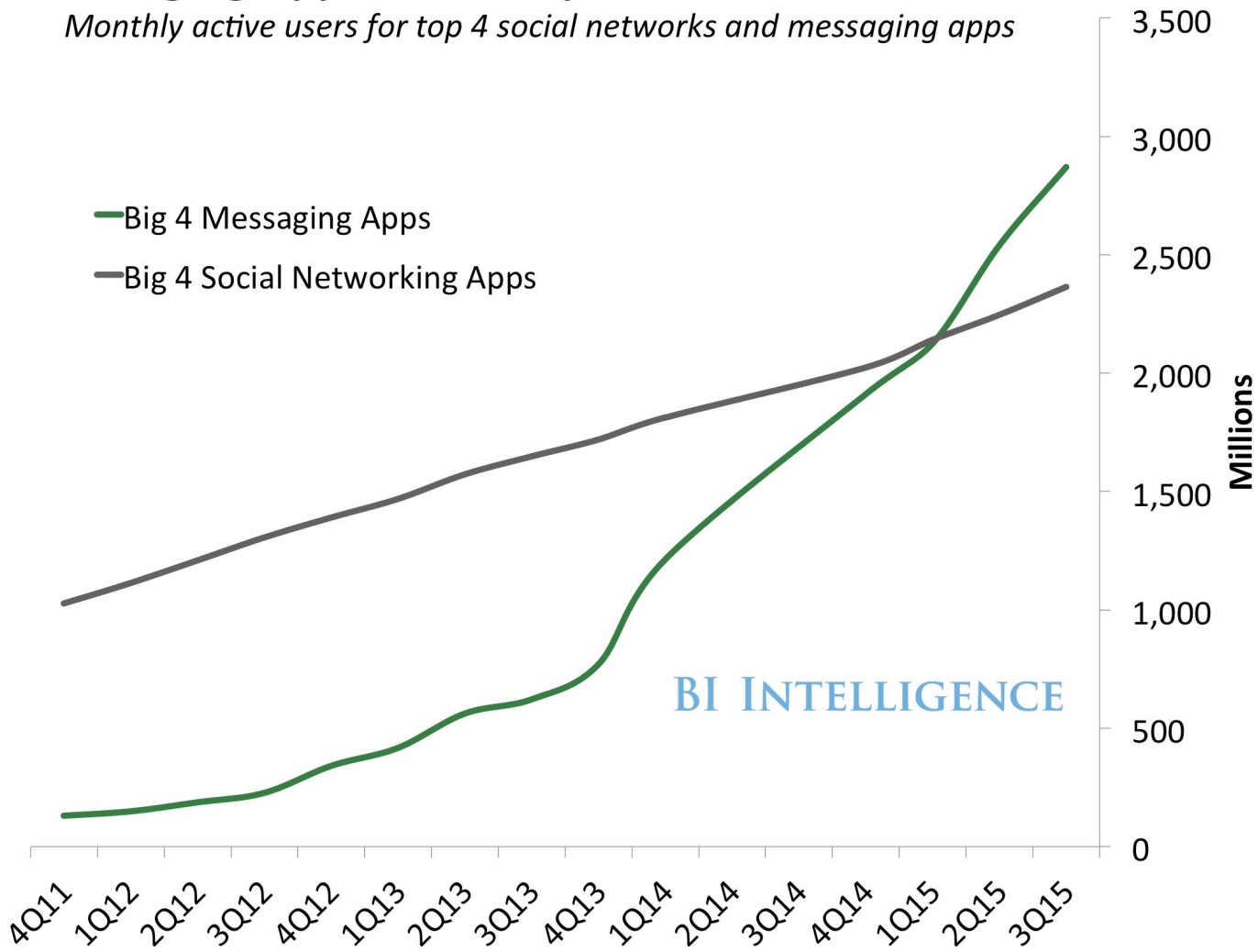
*Offload low-level tasks to **intelligent softwares***



The rise of conversational apps

Messaging Apps Have Surpassed Social Networks

Monthly active users for top 4 social networks and messaging apps



Source: Companies, BI Intelligence

The screenshot shows a Slack interface. On the left, a sidebar lists channels (#general, #random) and direct messages (slackbot, zelros). The main window shows a conversation with @zelros. The conversation starts with a user named christophe asking for help. The bot, zelros, responds and provides order data and forecasts in response to specific questions.

Conversation Log:

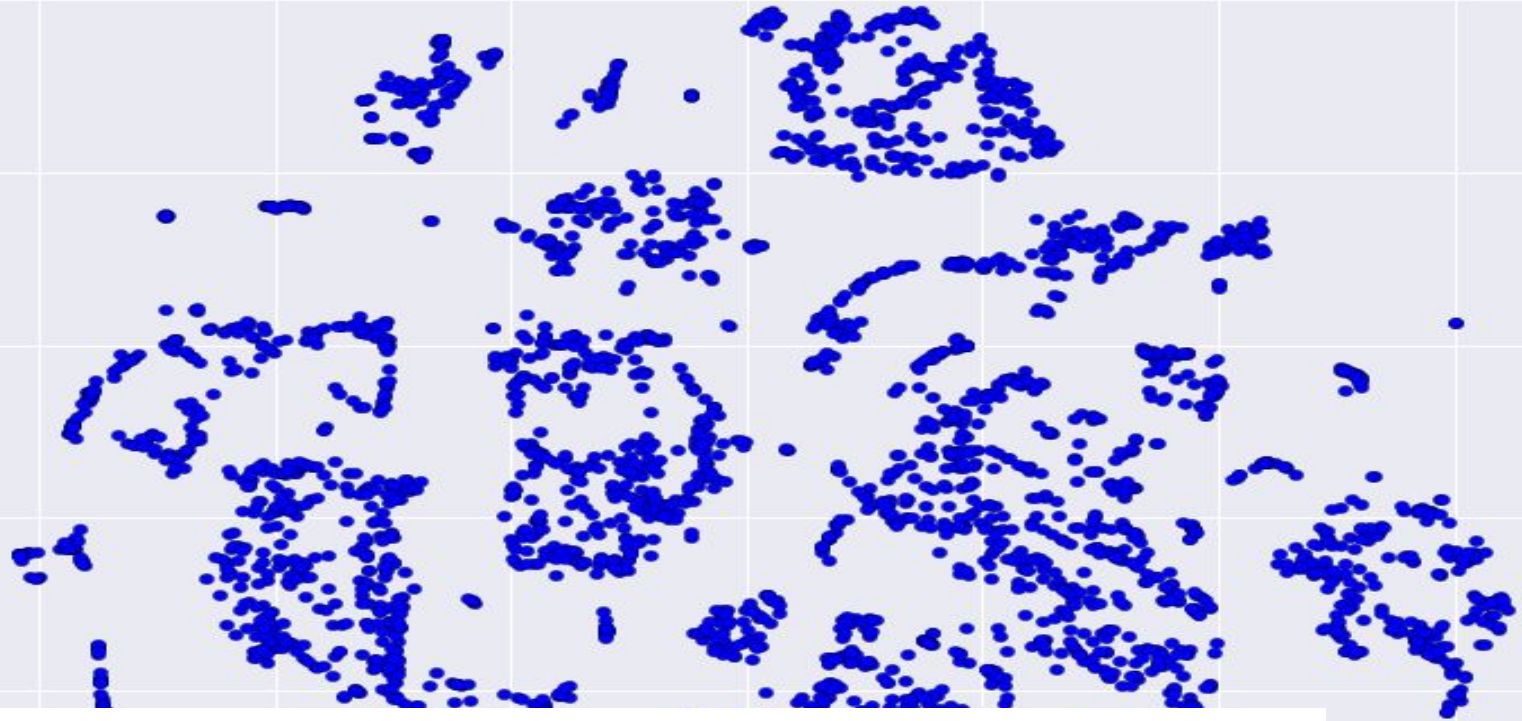
- christophe** 3:53 PM: Hi, can you help me ?
- zelros** BOT 3:53 PM: Sure, you've come to the right place
- christophe** 3:53 PM: What was the amount of orders yesterday ?
- zelros** BOT 3:53 PM: 103 orders - 96 K€
- christophe** 3:54 PM: what is the prediction for the end of the week ?
- zelros** BOT 3:54 PM: around 540 orders - 538 K€
- christophe** 3:54 PM: and per country ?
- zelros** BOT 3:54 PM: Order prediction for the end of the week
- | | |
|----------------|---------------|
| Italy | France |
| 212 K€ | 152 K€ |
| Germany | Other |
| 83 K€ | 91 K€ |
- christophe** 3:54 PM: OK, thanks 😊 !
- zelros** BOT 3:54 PM: you're welcome !

The interface includes a search bar at the top right, a settings icon, and a message input field at the bottom.

A virtual assistant to access status and forecasts in **natural language**



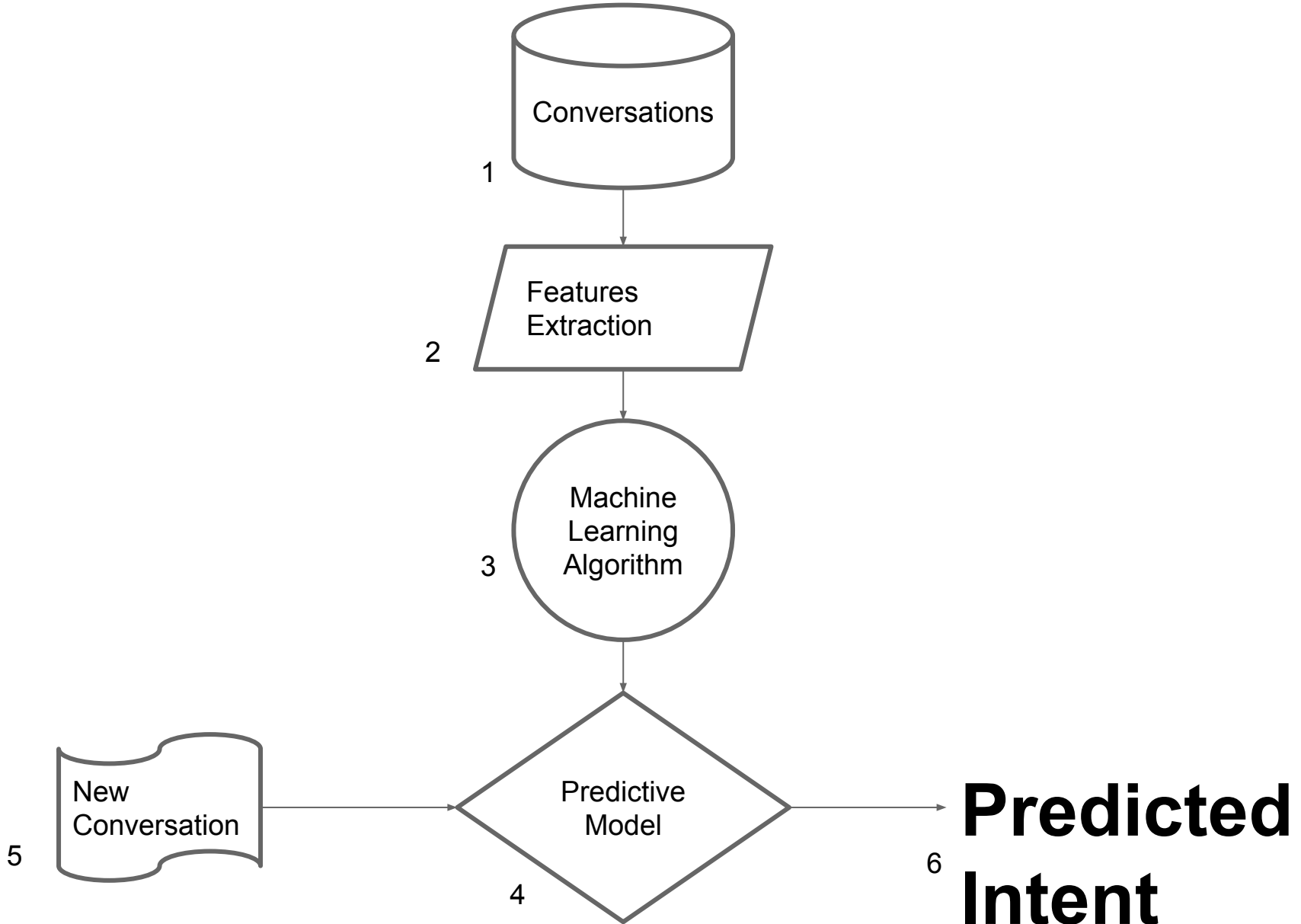
Rule Based VS Machine Learning Based Bots



Unsupervised Topics Clustering



Supervised Learning



Advanced Concepts

Named Entities Recognitions

- Providers
- Resources
- Time periods
- ...

Active Learning

Bot improvement with the help of humans

When will be paid Karnegy's invoices ?



Moment



Action



Provider



Attribute

Thanks!

Any questions?



christophe.bourguignat@zelros.com