

A large, detailed graphic of a DNA double helix is positioned on the right side of the slide. The DNA is rendered in grayscale, showing its characteristic twisted ladder structure with vertical rungs and diagonal cross-links. It spans almost the entire width of the slide, from approximately x=250 to x=1000.

# Corporate Presentation

July 2016

# Contents

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- Our vision and strategy
- Services and solutions
- Our product offering
  - For IT engineers
  - For biologists and genome centers
- Consulting projects and custom pipelines
- IT infrastructure and data processing platform
- Our management team
- Contact us



# NGS Pipeline Corporate Presentation

## Our vision and strategy

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We believe that bioinformatics data processing should be a more user-friendly and convenient experience

Our target customers are both IT engineers interested in bioinformatics and professional biologists looking for the ways to outsource their IT infrastructure

- We believe that bioinformatics data processing should be made easy, fun and accessible for everyone.
- With our platform, we aim to transform running a pipeline on a cluster into a single-click exercise. We believe that UI and convenience of use matter a lot.
- At NGS Pipeline we are bridging the gap between IT engineers and biologists providing them with the services tuned for their needs:
  - We aim to make bioinformatics a more popular discipline among IT engineers, and provide them with a guided introduction to standard approaches and ability to experiment with their own data.
  - We also aim to provide biologists and genome centers with a powerful cloud-based infrastructure customized for their needs. As a part of our consulting business, we offer outsourcing of the whole pipeline configuration process, lowering operational and maintenance costs for our customers.

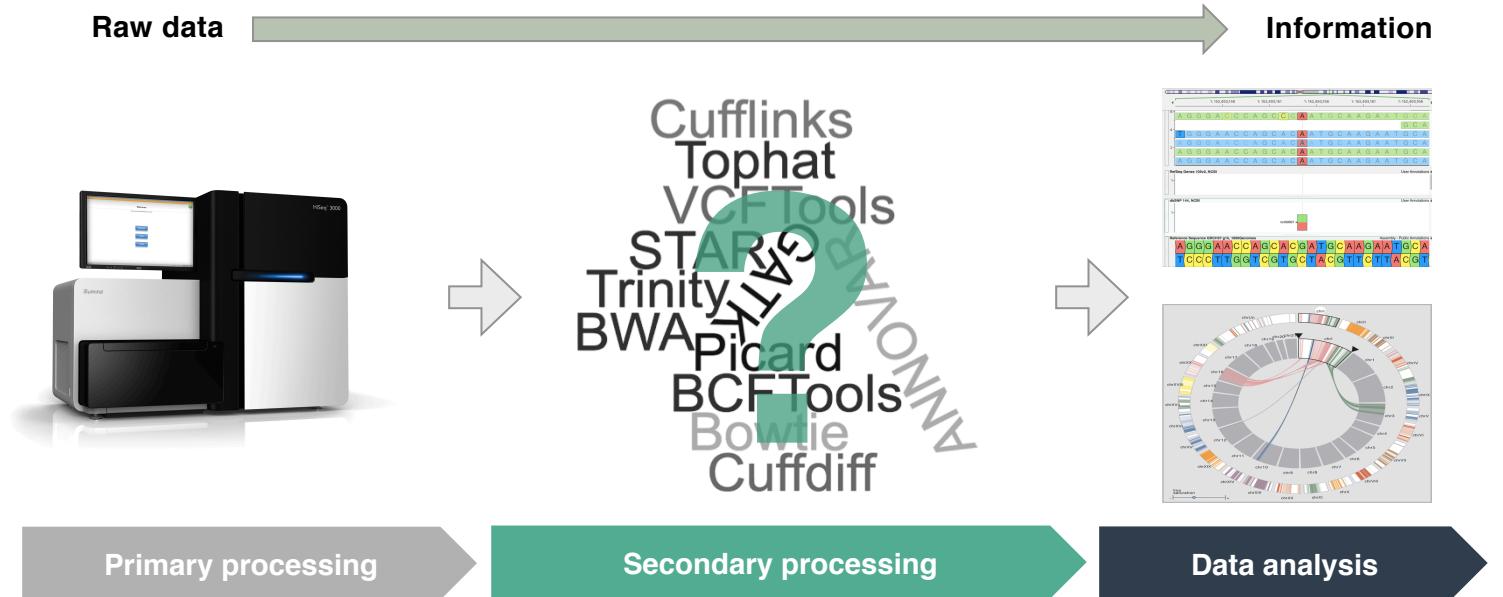


# NGS Pipeline Corporate Presentation

## Services and solutions

### Bioinformatics data processing: from wet lab to end users

We focus on the secondary data processing stage and optimize your pipelines for cluster environment



### Services and solutions we offer:

- We focus on secondary processing of bioinformatics data.
- We try to help you to find your way in a “zoo” of different secondary processing tools by providing you with preconfigured and standardized data processing pipelines on our website.
- As a part of the process, we optimize your pipelines for cluster-based environment to be launched by you in our private cloud.



**Our goal is to bridge the gap between IT professionals and biologists and provide relevant services to both customer segments**

# NGS Pipeline Corporate Presentation

## Our product offering

	IT engineer	Biologist
<b>Issues faced:</b>		
Technical issues with installing and launching bioinformatics software	✗	✓
Lack of extensive knowledge in biology and genomics	✓	✗
Integration and interoperability difficulties with open-source bioinformatics software	✓	✓
Need for scalable processing capacity to run the data analysis	✓	✓

**What is NGS Pipeline offering?**

We provide you with a guided introduction to bioinformatics industry

We take care of your IT infrastructure and data handling needs, so you can focus on your core business – the science



We provide IT engineers  
with a guided and well-  
structured introduction to  
bioinformatics industry

# NGS Pipeline Corporate Presentation

## Our product offering for IT engineers

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- With NGS Pipeline platform, you get:
  - Guided introduction to the bioinformatics industry
  - Well-structured understanding of the main types of bioinformatics data processing
  - Prepared sample datasets and examples to get hands-on experience and meaningful results
  - Powerful cluster-based environment to let you experiment with your own data and speed up your learning process
- No previous experience in biology is required, great for students and career switchers.
- We will make you familiar with such types of standard bioinformatics data processing pipelines as DNA-Seq, RNA-Seq, De Novo Assembly, Chip-Seq, small RNA-Seq, Metagenomics applications, and Epigenetic sequencing.





# NGS Pipeline Corporate Presentation

## Our product offering for biologists and genome centers

- We offer the following types of services for our professional users:

### 1. Standard pipelines for basic tasks

- Easy-to-use platform with automated pipelines to perform reference-based and de novo assembly
- No need to manually configure any workflow parameters



### 2. Cheap processing and file storage capacity

- Moving all your data-heavy tasks to our cluster facilities and significantly reducing your IT maintenance costs
- Access to unlimited file storage space in a private cloud

### 3. Consulting projects and custom pipelines *(see more on the next page)*

- Outsourcing complex data integration tasks to our team to lower the labor costs of your lab
- Delivery of your project as a custom pipeline accessible through a convenient Web and mobile interface

For genome centers we offer consulting services and outsourcing of their bioinformatics data processing to our cloud-based architecture



Consulting projects are fully customized to your needs and accessible through our Web-interface

In contrast to our competitors, we provide a bundled offer of consulting services and processing capacity, so you don't need to manually configure anything at all

# NGS Pipeline Corporate Presentation

## Consulting projects and custom pipelines

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- **Why outsource your bioinformatics data processing to us?**
  - Cut your IT infrastructure maintenance expenses
  - Get access to low-cost preconfigured cluster environment to launch your pipelines and store your data
  - Utilize the IT expertise of our team in both bioinformatics and big data technologies
- **How does the process work?**
  - You submit your request for a consulting project through our website by filling in a simple form
  - We can work under any collaboration model you prefer (Fixed price, Time and Materials, Dedicated Team)
  - Our remuneration is fully based on success fee, so you pay only once you get your desired result
  - You will have high-quality user support with an SLA after the project is completed
- **What do you get as a result?**
  - Easy-to-use Web-based platform fully customized for your needs
  - You can run resource-intensive data analysis on our servers with a single-click
  - If your requirements change, we can always update the processing algorithms for you



# NGS Pipeline Corporate Presentation

## IT infrastructure and data processing platform

Our IT platform is built on a scalable cloud-based infrastructure and has convenient UI that can be customized for your needs

### Web and mobile interfaces

A screenshot of the NGS Pipeline web interface. The left sidebar includes links for "Perform data analysis", "Data management", "Storage files", "Custom projects", "Support", and "Contact". The main content area shows a "Perform data analysis" page with three steps: "1. Upload data", "2. Data processing", and "3. Get your output file". It displays uploaded files (SAM, VCF, CSV) and provides instructions for what's next, mentioning "Golden Helix" and "Broad Institute".

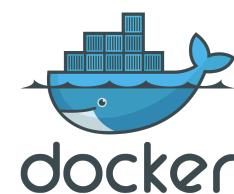


- Easy-to-use
- No need to set up your workflows manually
- Convenient and customizable

### Back-end cluster-based powerful infrastructure



MESOS



- Scalability
- Reliability
- Processing speed
- Unlimited data storage

# NGS Pipeline Corporate Presentation

## Our management team

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### Natallia Chykina, CEO



- Natallia graduated from University of Chicago Booth MBA program
- She has extensive background in investment banking and IT industries

[natallia.chykina@ngspipeline.com](mailto:natallia.chykina@ngspipeline.com)

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### Sergey Chykin, CTO



- Sergey graduated from the University of London with a degree in Computer Science
- He has more than 7 years of IT experience, including management of a number of Big Data and BI projects

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# NGS Pipeline Corporate Presentation

Contact us

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