

# Paint the future, With OSS!

SIOS Technology, Inc.

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## Company Name

**SIOS Technology, Inc.**

## Headquarters

SIOS Building, 2-12-3 Minami Azabu, Minato-ku, Tokyo 106-0047, Japan

## Established

May 23, 1997

## Stock Listing Stock Code

3744 on the Second Section of Tokyo Stock Exchange

## Subsidiaries

SIOS Technology Corp. (California, USA)

SIOS (Beijing) Technology, Inc. (Beijing, China)

Gluegent, Inc. (Tokyo, Japan)

Kanshin!, Inc. (Tokyo, Japan)

**Gladio, Inc. (California, USA)**

**Keyport Solutions, Inc. (Tokyo, Japan)**

**Profit Cube Inc. (Tokyo, Japan)**



# Our Business ?

「How to do Business with  
OSS? I know it's FREE!!!」

→ **Just to use it.**

(Software, Integrations, Support)

10years (7.3%) 20years (0.7%)



A photograph of three penguins on a rocky shore. The central penguin is in sharp focus, looking directly at the camera. It has a white belly and a dark grey back. To its left and right are two other penguins, slightly out of focus. They have black and white plumage. The background consists of dark, layered rock formations. Overlaid on the image is the text 'Developing business through utilizing OSS' in a bold, yellow, sans-serif font. The text is split into two lines and has horizontal lines passing through it, giving it a stylized appearance.

# ~~Developing business through utilizing OSS~~

**We are changing !**



# Which OSS can be used for... ?







What can be painted by using  
these coloring materials ?

Which coloring materials  
we should use to paint that picture ?



**To do something we have never  
done before**

**Combining things with others**



**System issues**

**increasing explosively**





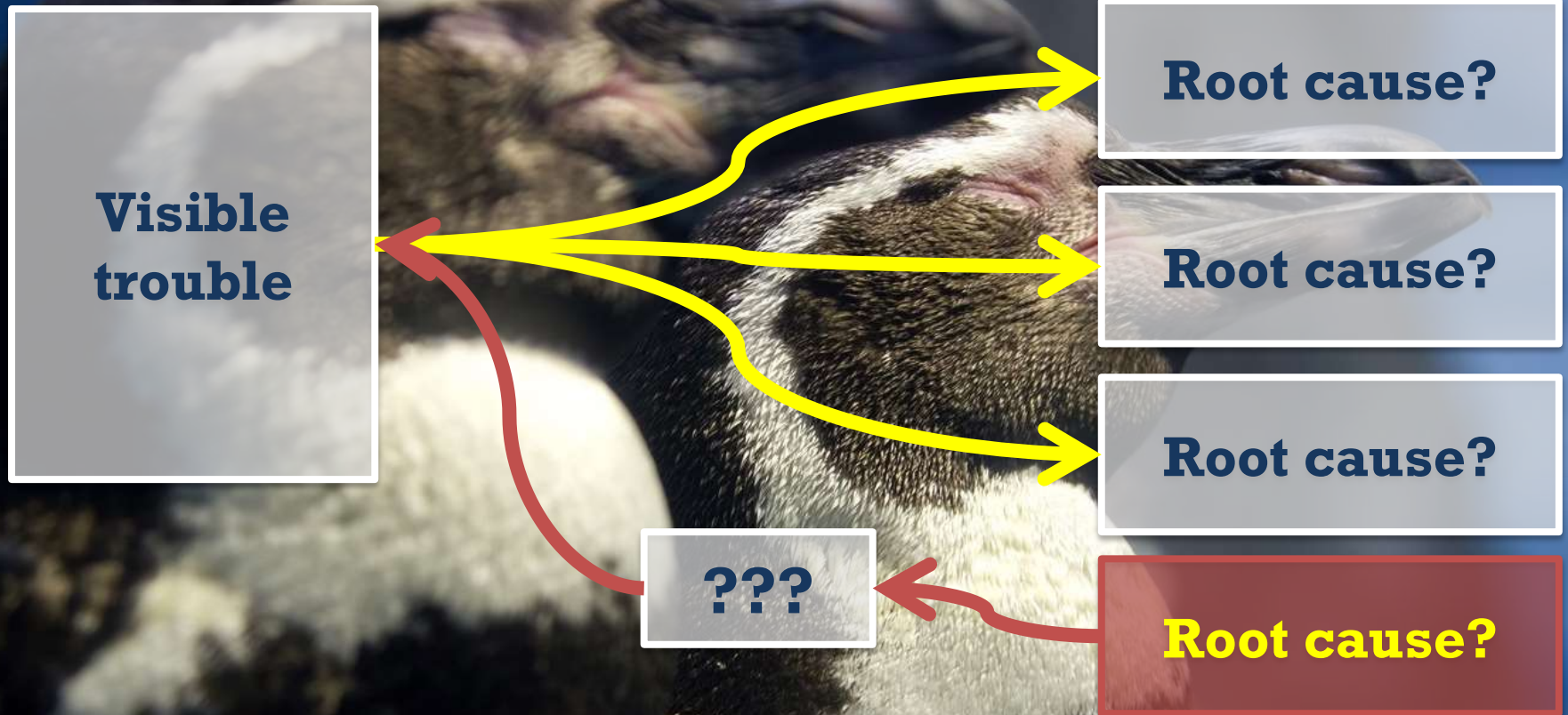
- Detect abnormality under complicated condition
- Each unit needs its specialist
- We can't see those can't be seen
- It takes time to find root cause

A group of penguins, likely African penguins, are standing on a rocky ledge. They have black and white plumage with distinctive black bands across their chests. Some penguins have small colored bands on their legs. The background is a plain, light-colored wall.

# Threshold



# Foresight & Find root cause



## What should we do ?



# Observing behavior instead setting threshold

How to change “Up to Now”  
significantly ?





## Detection

Detecting  
abnormality

## Analysis

Finding root  
cause

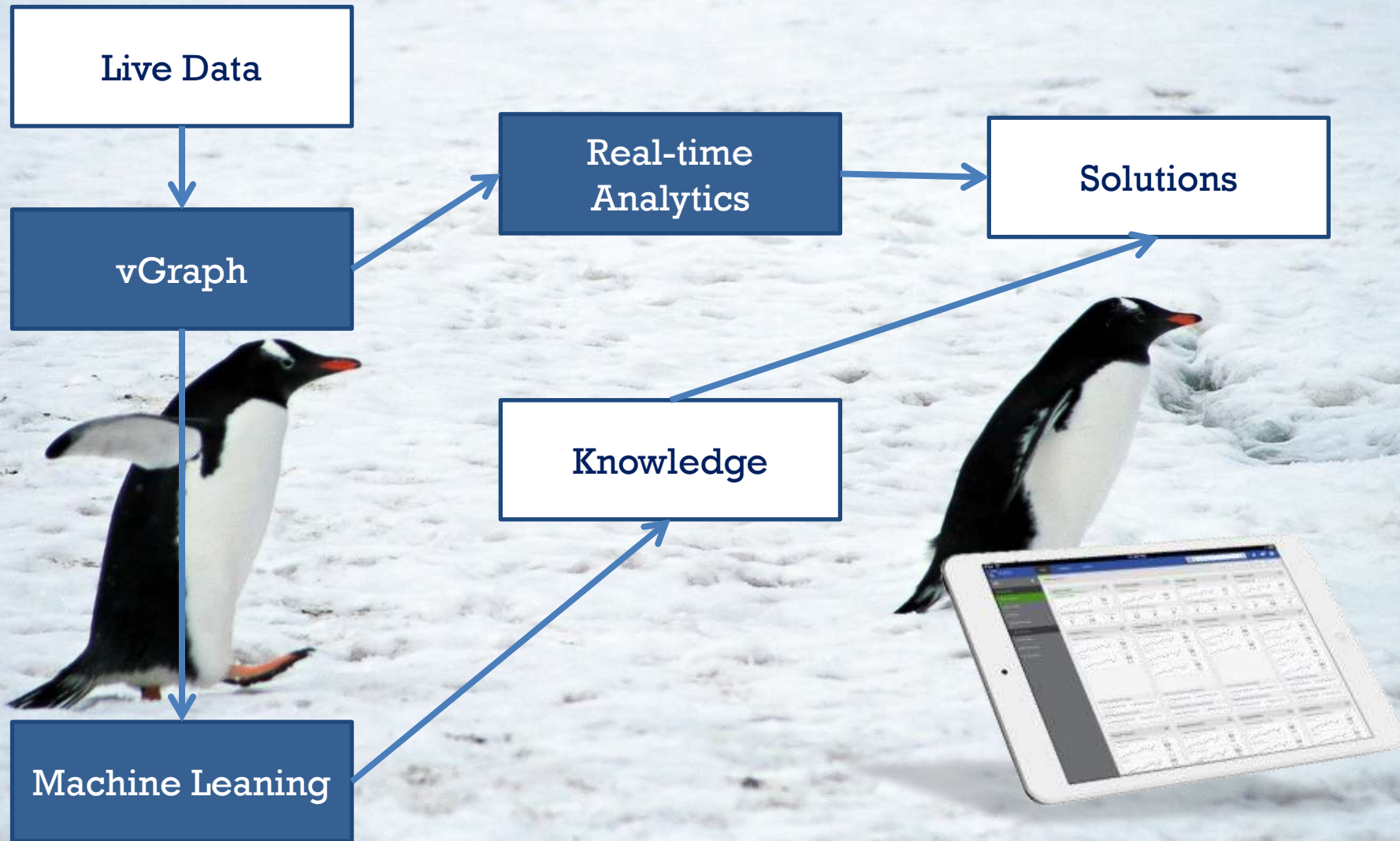
## Prediction

Predicting next

## Recommend ation

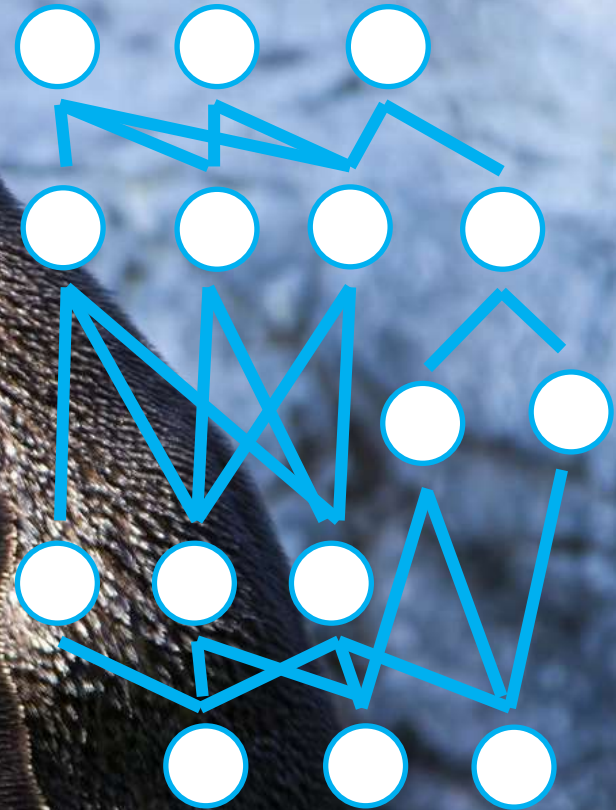
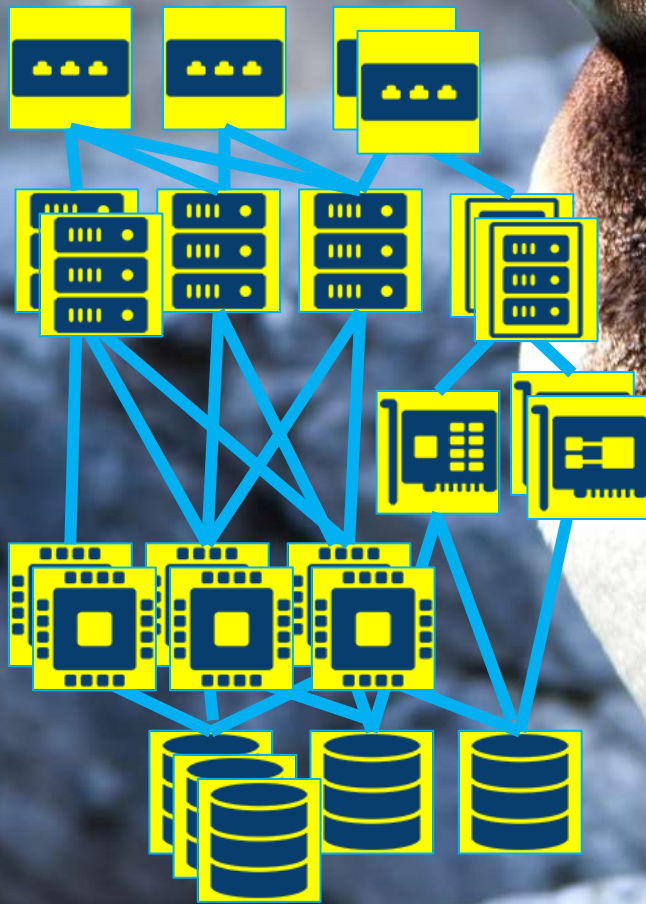
Resolving issues

# IDEA





# vGraph (neo4j)



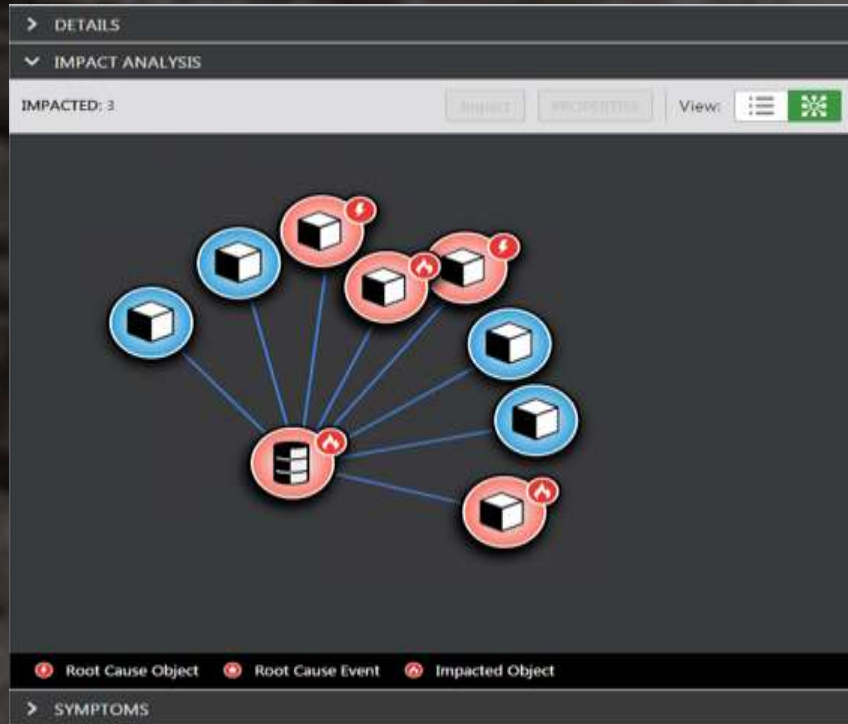


# K-means (Madlib)





# Define root cause

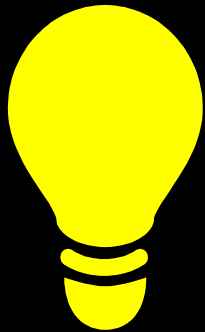


⚡ “**Lighting**” is the root causes

🔥 “**Fire**” is the impacts

## Detect abnormality

→ Find the root cause



## **Machine Learning**

- Python & PostgreSQL
- Kmeans (Madlib)
- Maharanobis (Madlib)
- Regression Analysis (Madlib)

## **Graph DB**

- Neo4j
- Graph Draw & View (Original)

## **LOG Analytics**

- Elastic & Kibana
- Highchart

## **AMQP PROTOCOL**

- RabbitMQ

## **OTHERS**

- AngularJS (Nodejs)
- Java



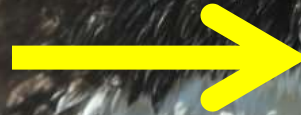
# Applying the technology

## Risk analysis for bank



Life Cycle

Risk  
Management



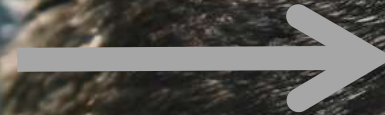
# Applying the technology

## Integrating information in bank



Life Cycle

Risk  
Management






**Keep seeking new technology**

**Enjoy business with OSS !**

**Resolve many issues !**

**10years (7.3%) 20years (0.7%)**





**Change the world**  
**with Shift Key !**

caps lock

shift



