



Monitoring

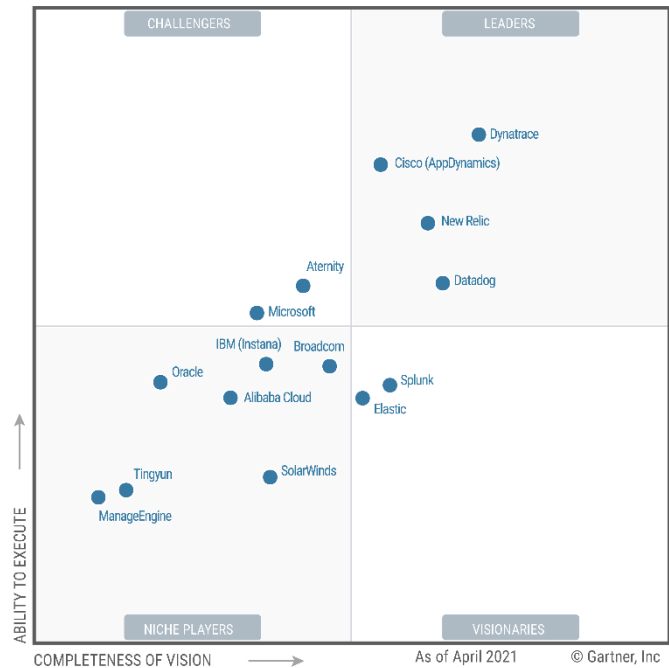
Monitoring Systems Overview



Players

Magic Quadrant

Figure 1: Magic Quadrant for Application Performance Monitoring

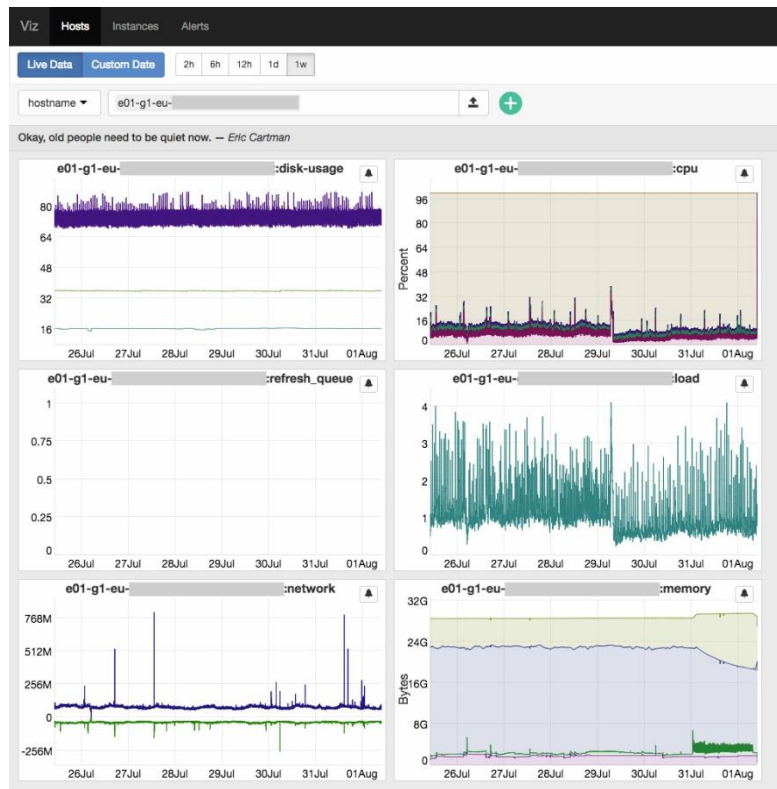


Source: Gartner (April 2021)



Performance monitoring

Prometheus



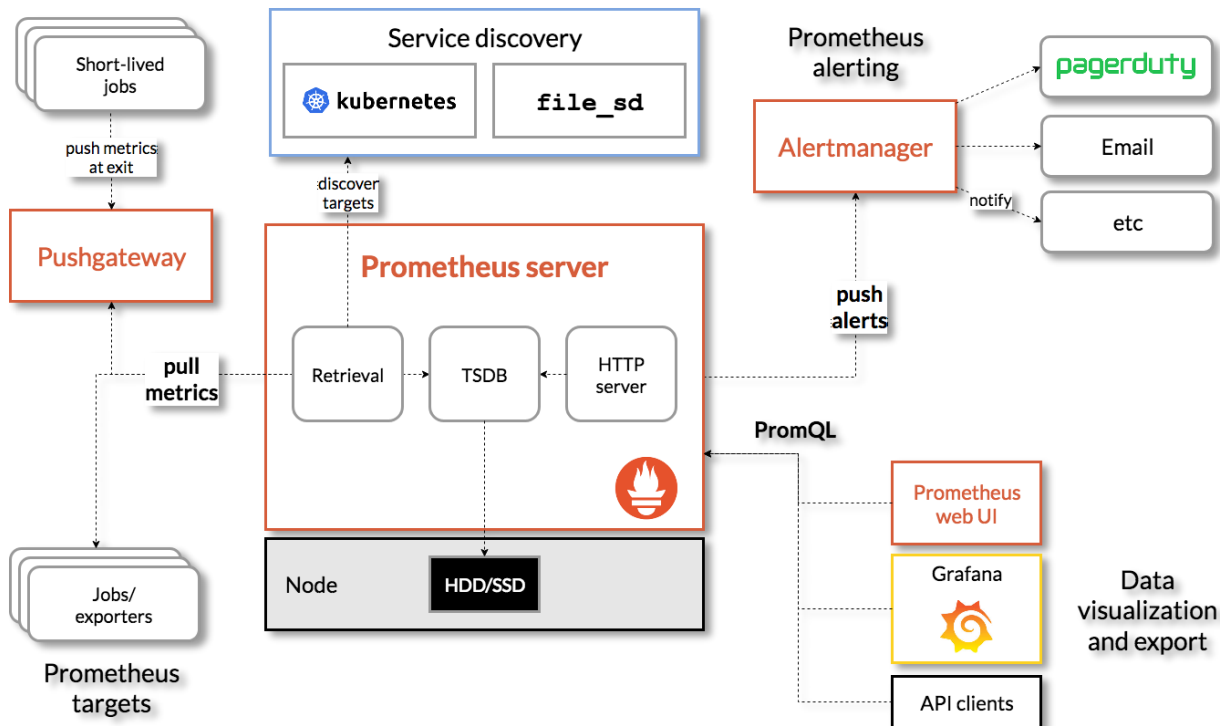
- [Prometheus](#) is an open-source systems monitoring and alerting toolkit originally built at [SoundCloud](#)
- Prometheus collects and stores its metrics as time series data, i.e. metrics information is stored with the timestamp at which it was recorded, alongside optional key-value pairs called labels.
- Prometheus is 100% open source and community-driven. All components are available under the [Apache 2 License](#) on [GitHub](#).

Grafana

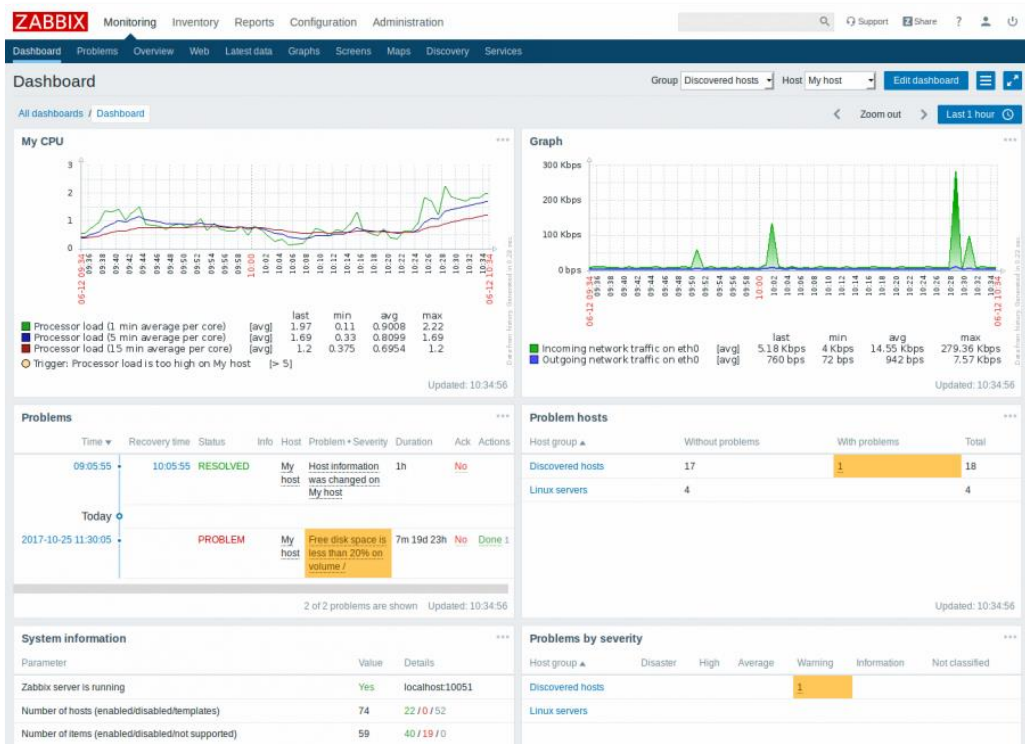


- Grafana is open source visualization and analytics software.
- It allows you to query, visualize, alert on, and explore your metrics no matter where they are stored.
- Open Source, Self-managed

Prometheus Stack



Zabbix



Zabbix Features

Metric Collection

Problem Detection

Visualization

Notification & Remediation

Security & Authentication

Effortless deployment

Auto Discovery

Distributed Monitoring

Zabbix API

What's new in Zabbix 5.4

Release Notes

Screenshots

System Requirements

Life Cycle & Release Policy

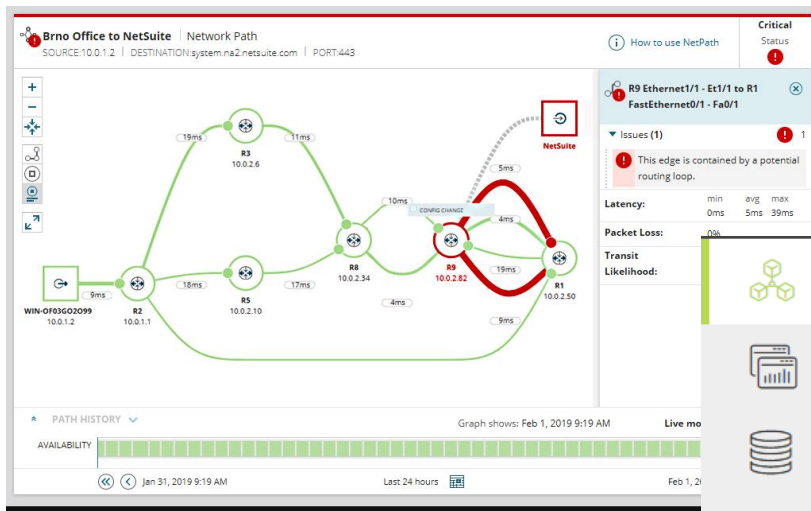
Security Policy

Roadmap

Reviews

Licence

Solarwinds



NETWORK MANAGEMENT



SYSTEMS MANAGEMENT



DATABASE MANAGEMENT



IT SECURITY



IT SERVICE MANAGEMENT



APPLICATION MANAGEMENT

PRODUCTS

Network Performance Monitor

Log Analyzer

NetFlow Traffic Analyzer

Network Topology Mapper

Network Configuration Manager

Engineer's Toolset

IP Address Manager

ipMonitor

User Device Tracker

Kiwi CatTools

VoIP & Network Quality Manager

Kiwi Syslog Server

Network Automation Manager

BUNDLES

Network Bandwidth Analyzer Pack

Log and Network Performance Pack

IP Control Bundle

Datadog

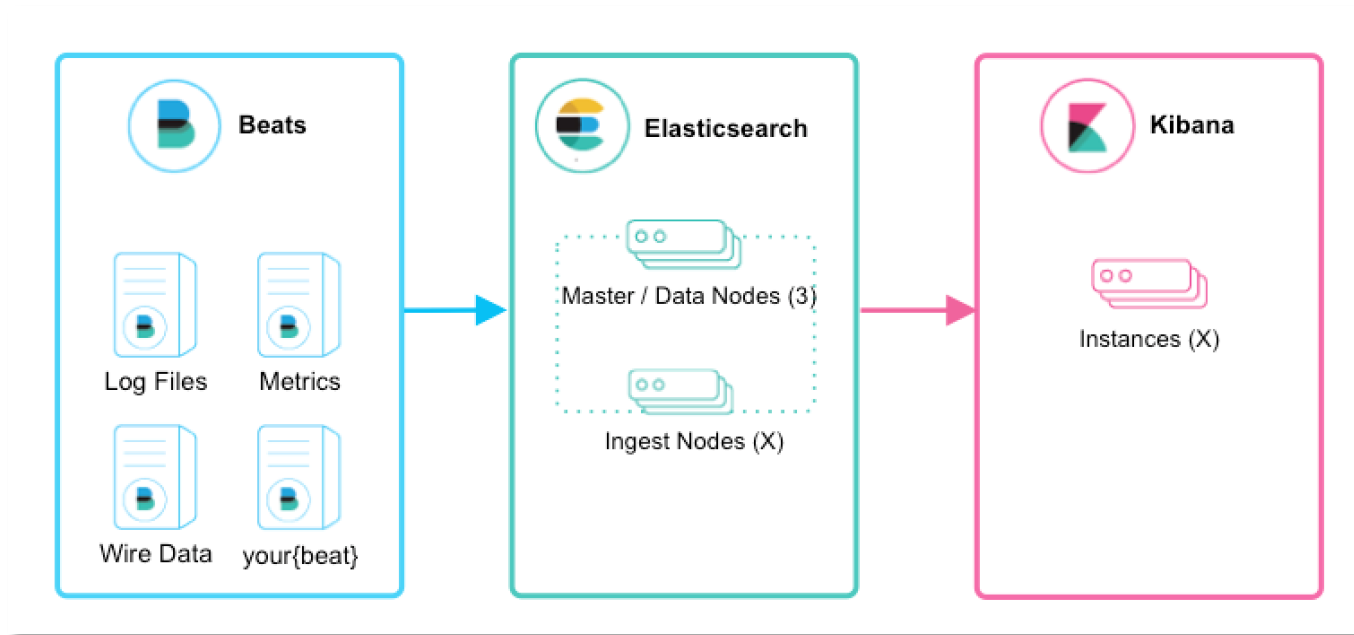


- Features
- Integrations
- Dashboards
- Infrastructure Monitoring
- Log Management
- APM
- Continuous Profiler
- Synthetic Monitoring
- Real User Monitoring
- Security Platform
- Security Monitoring
- CSPM
- Cloud Workload Security
- Network Monitoring
- Incident Management
- Serverless
- Alerts
- API



Logging

Elasticsearch Kibana Beats Logstash (ELK)



ELK - Elasticsearch

Elasticsearch is a real-time, distributed storage, search, and analytics engine. It can be used for many purposes, but one context where it excels is indexing streams of semi-structured data, such as logs or decoded network packets.

The heart of the Elastic Stack

It centrally stores your data for lightning fast search, fine-tuned relevancy, and powerful analytics that scale with ease.

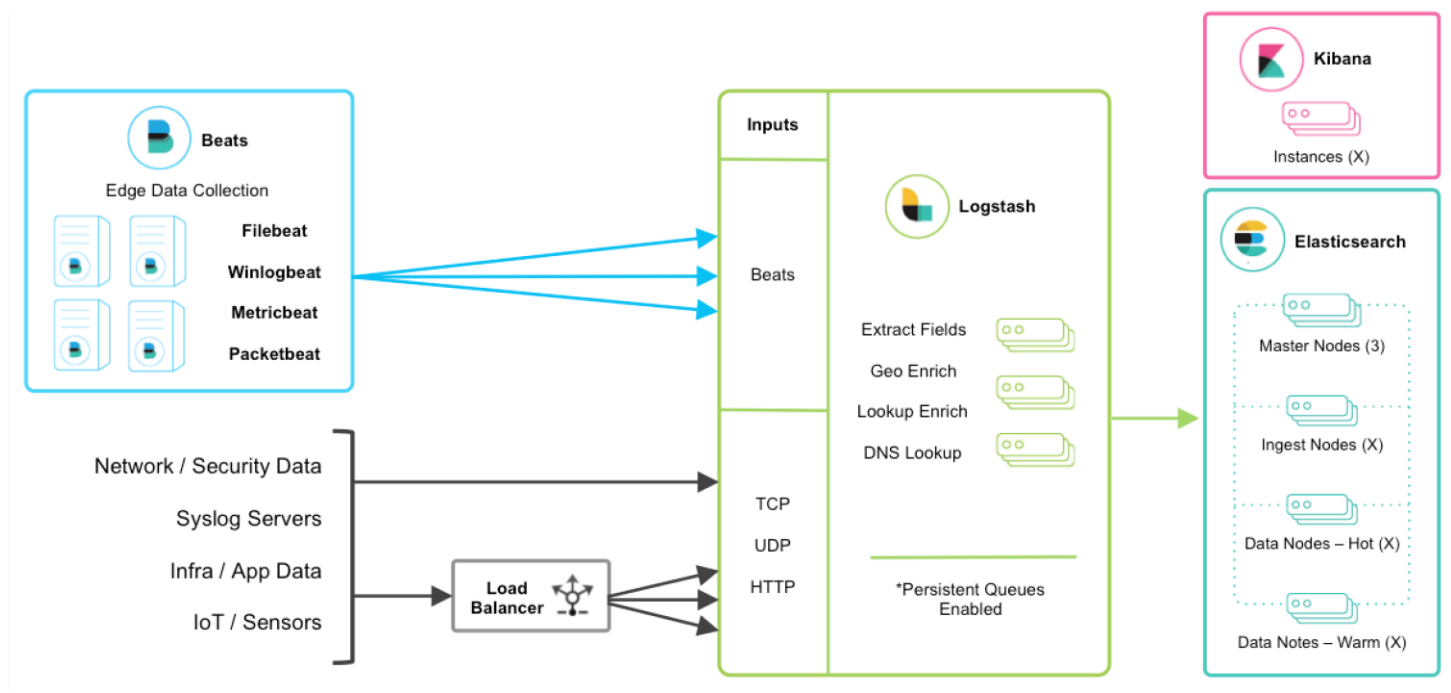
Kibana is an open source analytics and visualization platform designed to work with Elasticsearch. You use Kibana to search, view, and interact with data stored in Elasticsearch indices. You can easily perform advanced data analysis and visualize your data in a variety of charts, tables, and maps.

The Beats are open source data shippers that you install as agents on your servers to send operational data to Elasticsearch.

Beats can send data directly to Elasticsearch or via Logstash, where you can further process and enhance the data.

Logstash is a free and open server-side data processing pipeline that ingests data from a multitude of sources, transforms it, and then sends it to your favorite "stash."

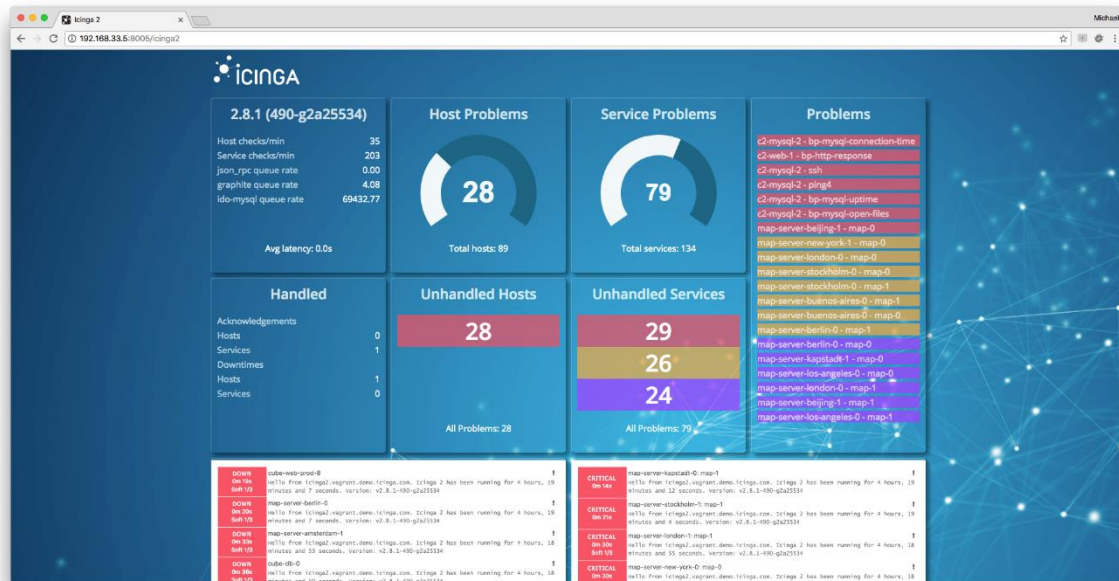
ELK stack





Event monitoring

Icinga



• [Icinga](#) is a monitoring system which checks the availability of your network resources, notifies users of outages, and generates performance data for reporting.

• Scalable and extensible, Icinga can monitor large, complex environments across multiple locations.



Monitoring

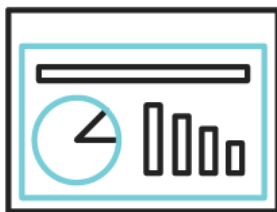
Alerts and Reports

Overview

Dashboards

Live View

Retrospective
analysis



Alerts

Instant
notification

Action
required



Reports

Summary
Information

By schedule

For further
analysis



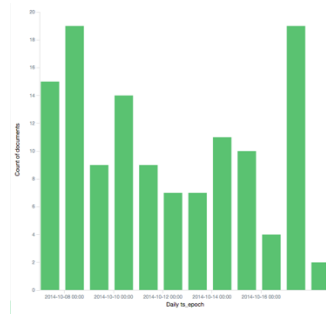


Dashboards

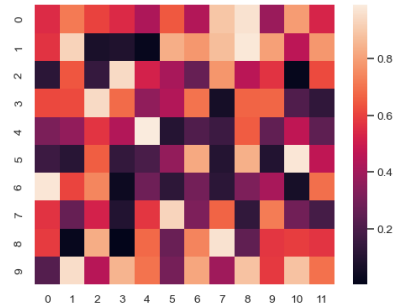
Dashboard



Dashboard



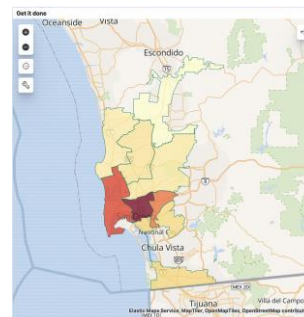
- Histogram



- Heatmap



- Speedometer



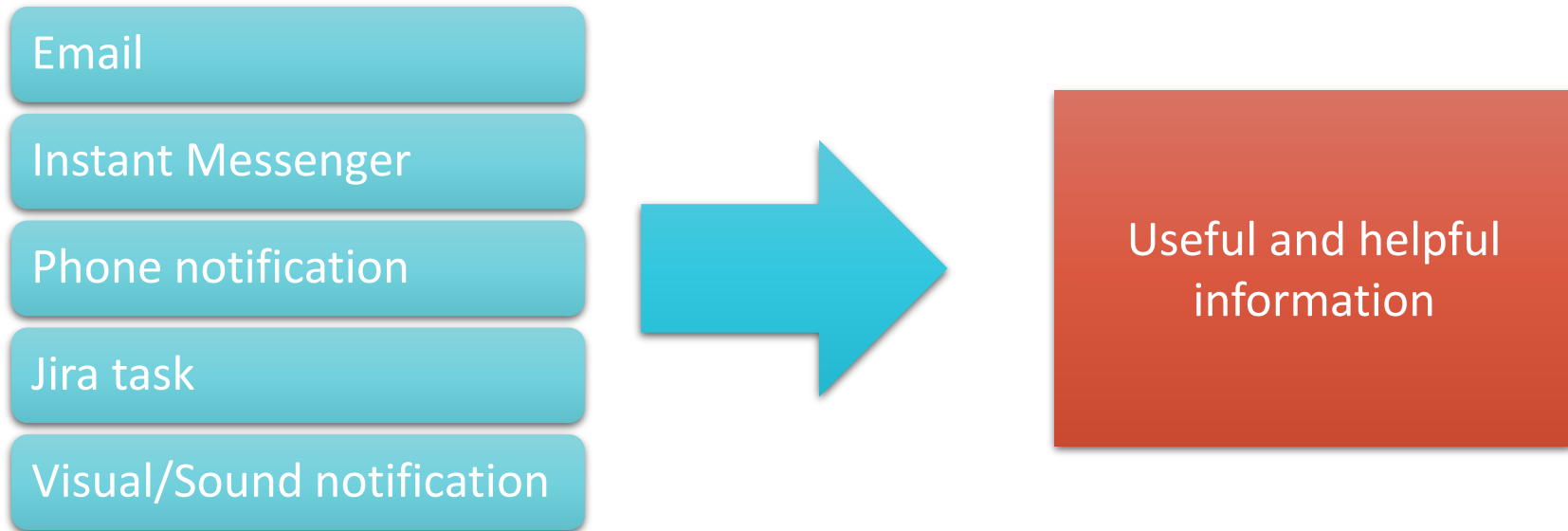
- Worldmap



Alerts



Alert

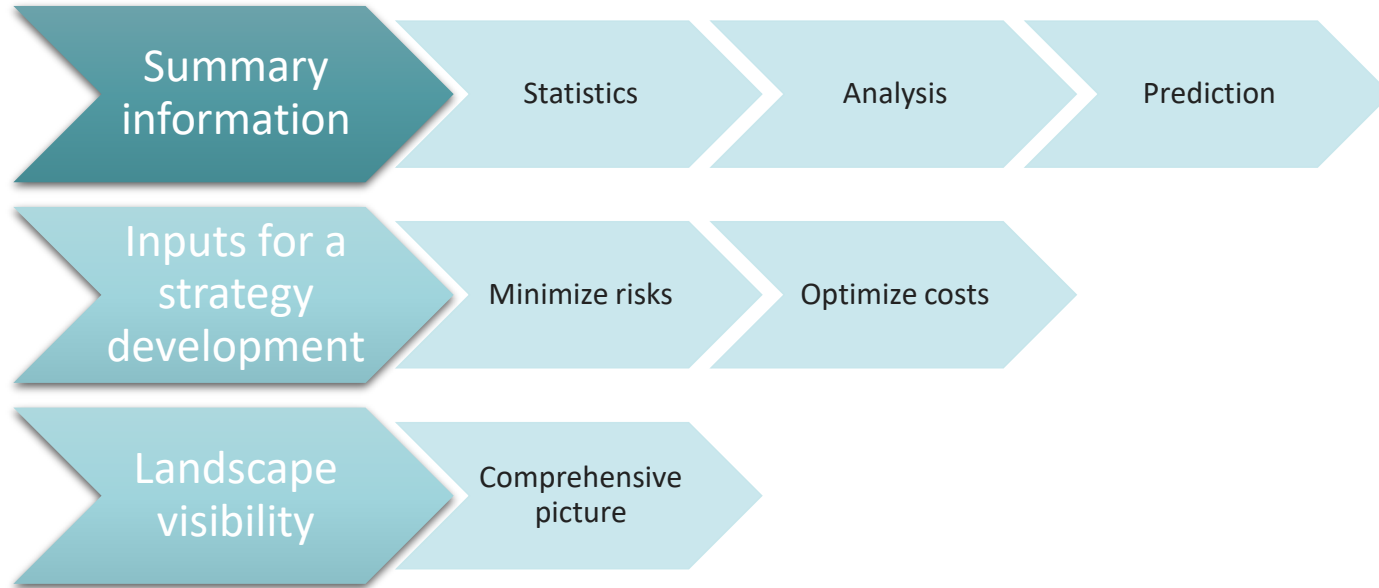




Reports



Reports



THANK YOU