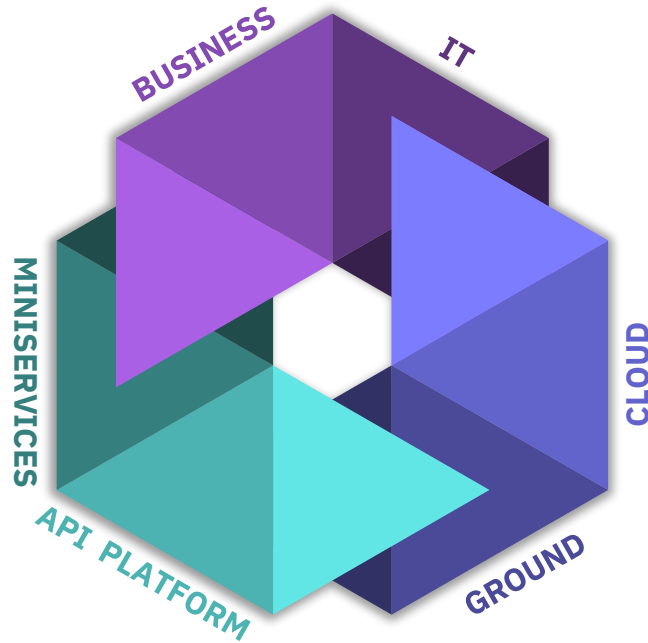




# FRENDS



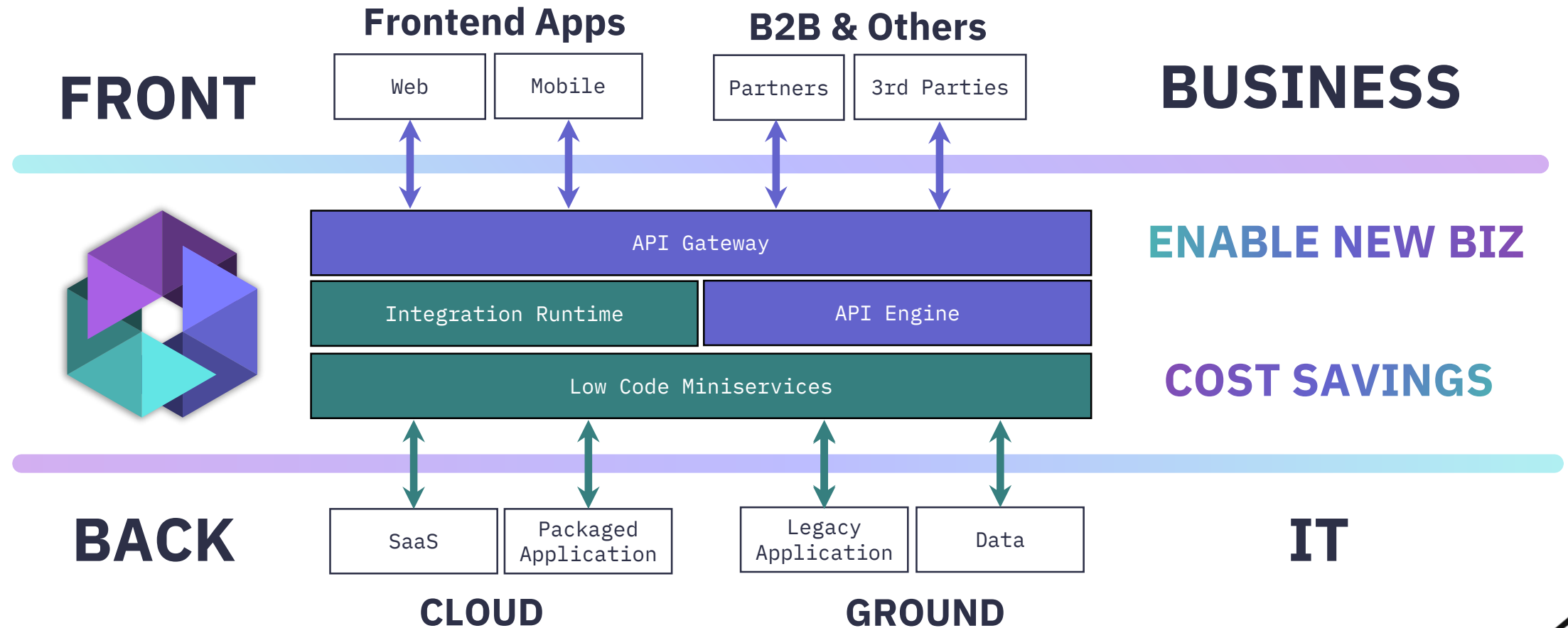
# FRIENDS ...



... is an **eiPaaS** which  
brings cost savings to **IT**  
through **miniservices**  
and enables new **business**  
as an **API Platform**.

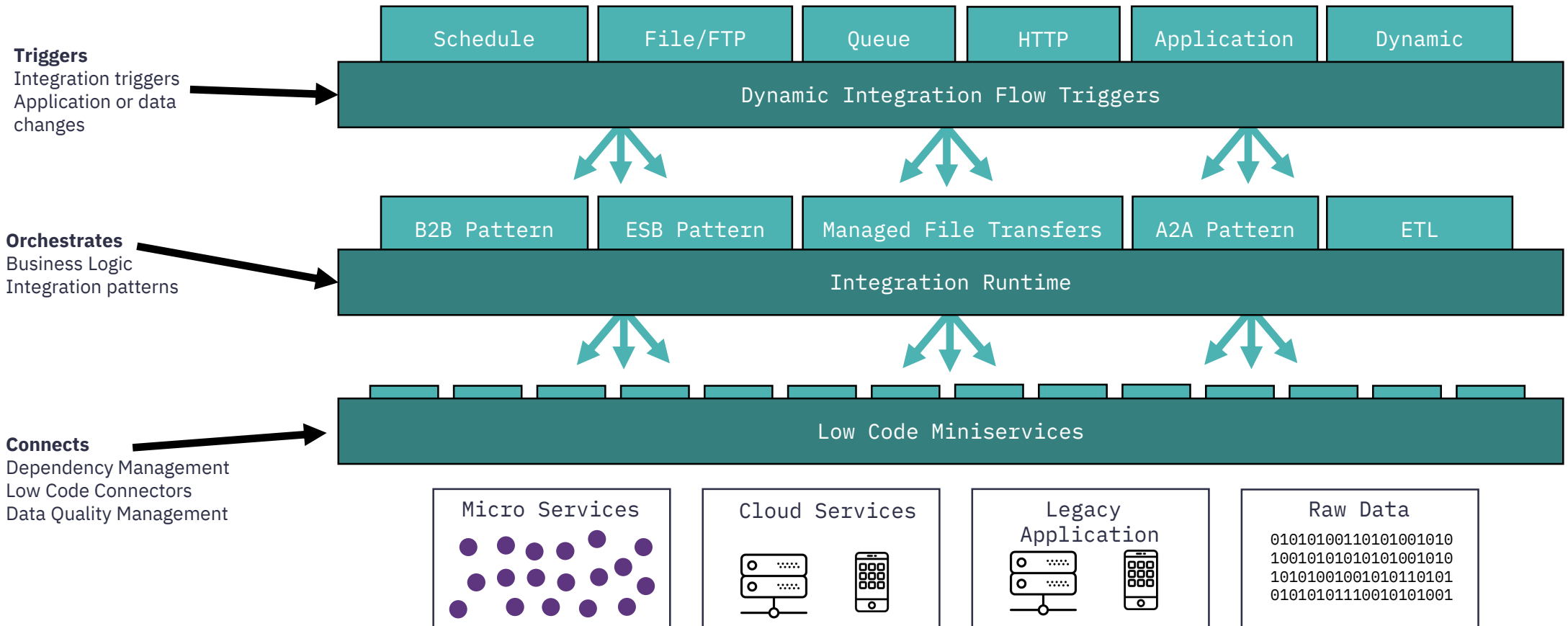


# What does FRIENDS do?





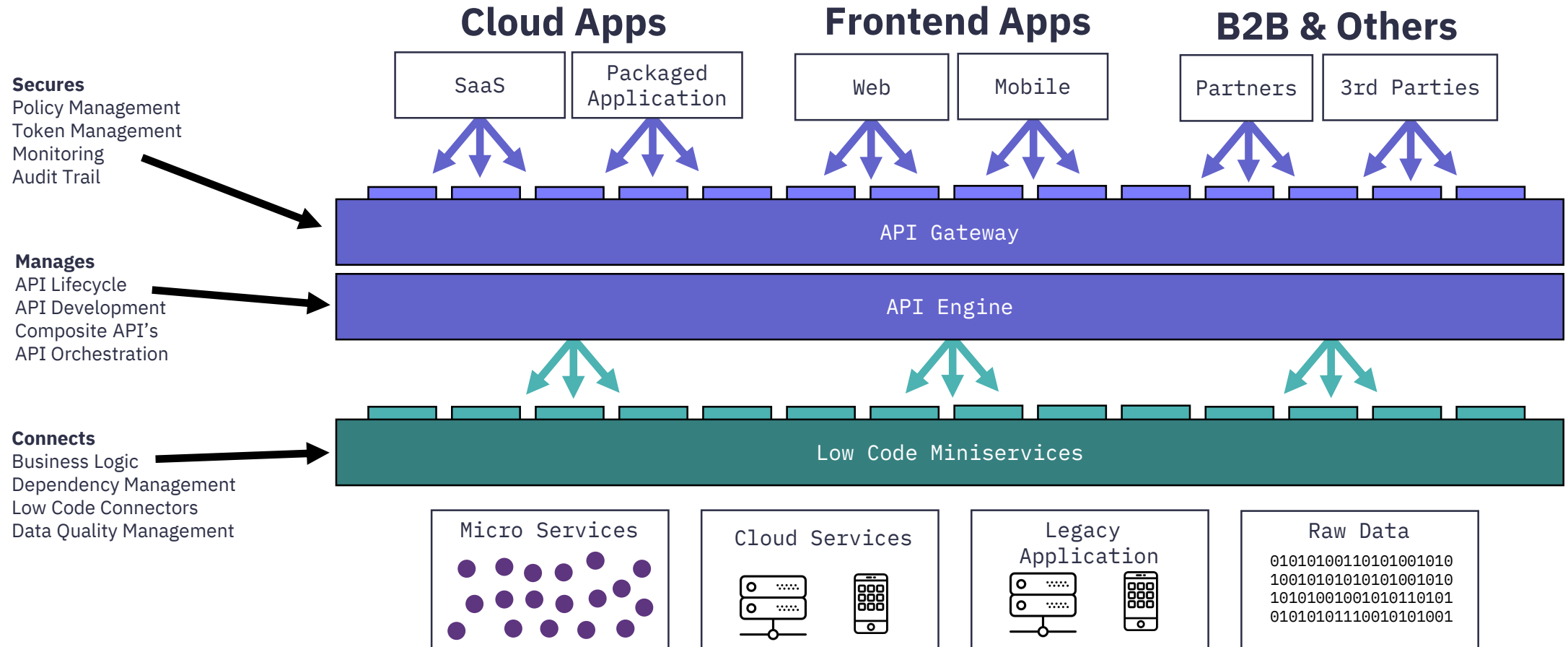
# FREND S & Back



hiQ



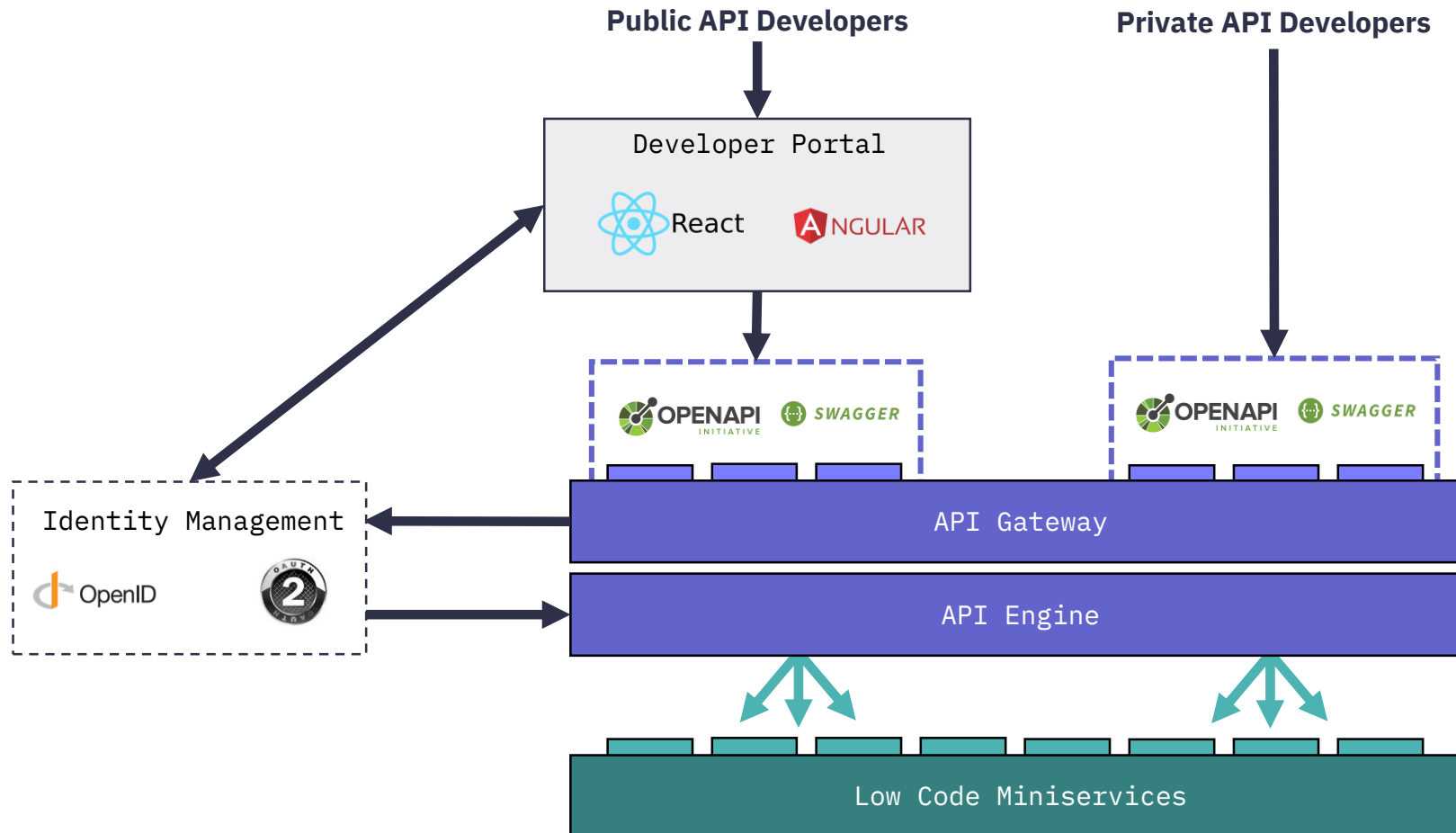
# FREND & Front



hiQ

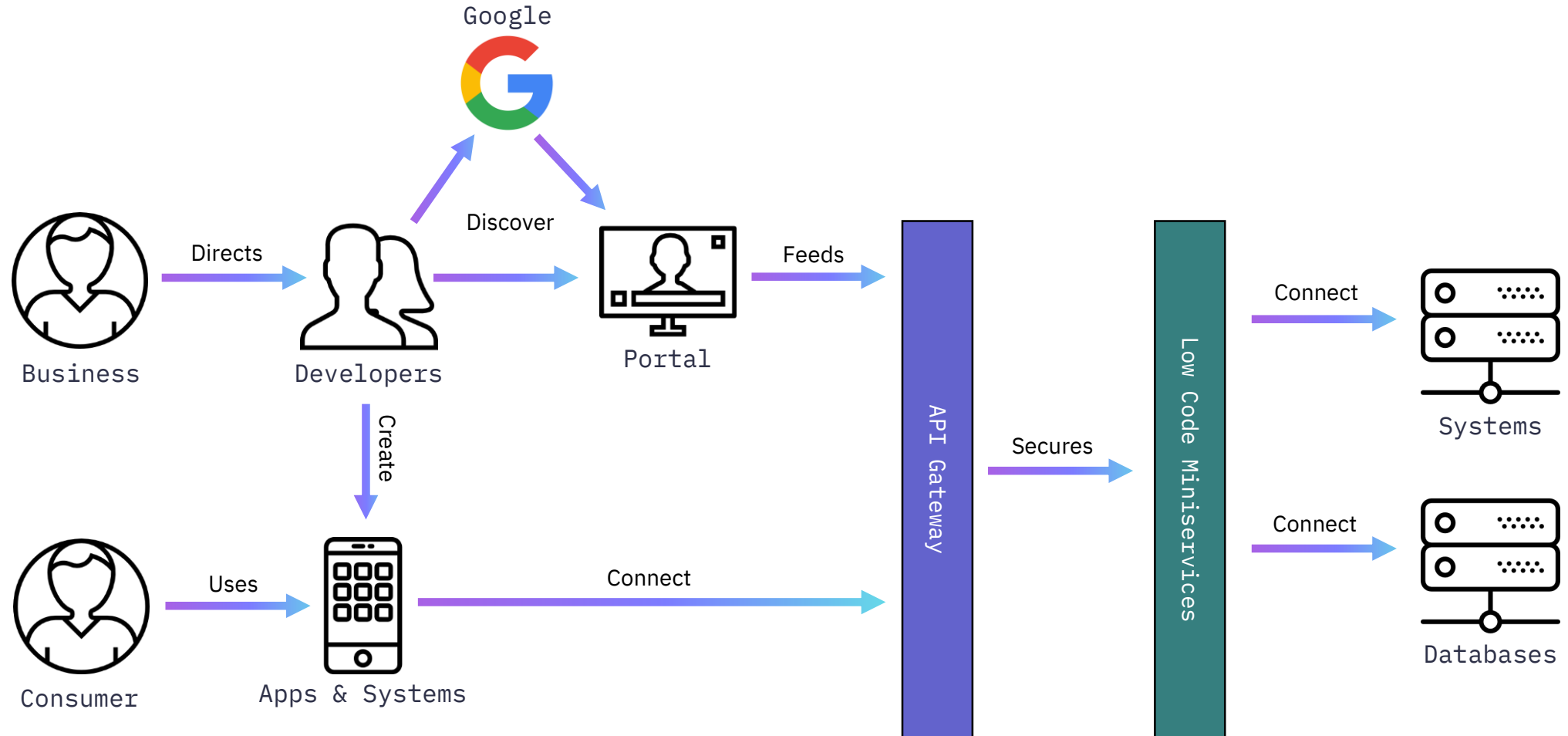


# FRENDs & Open API's





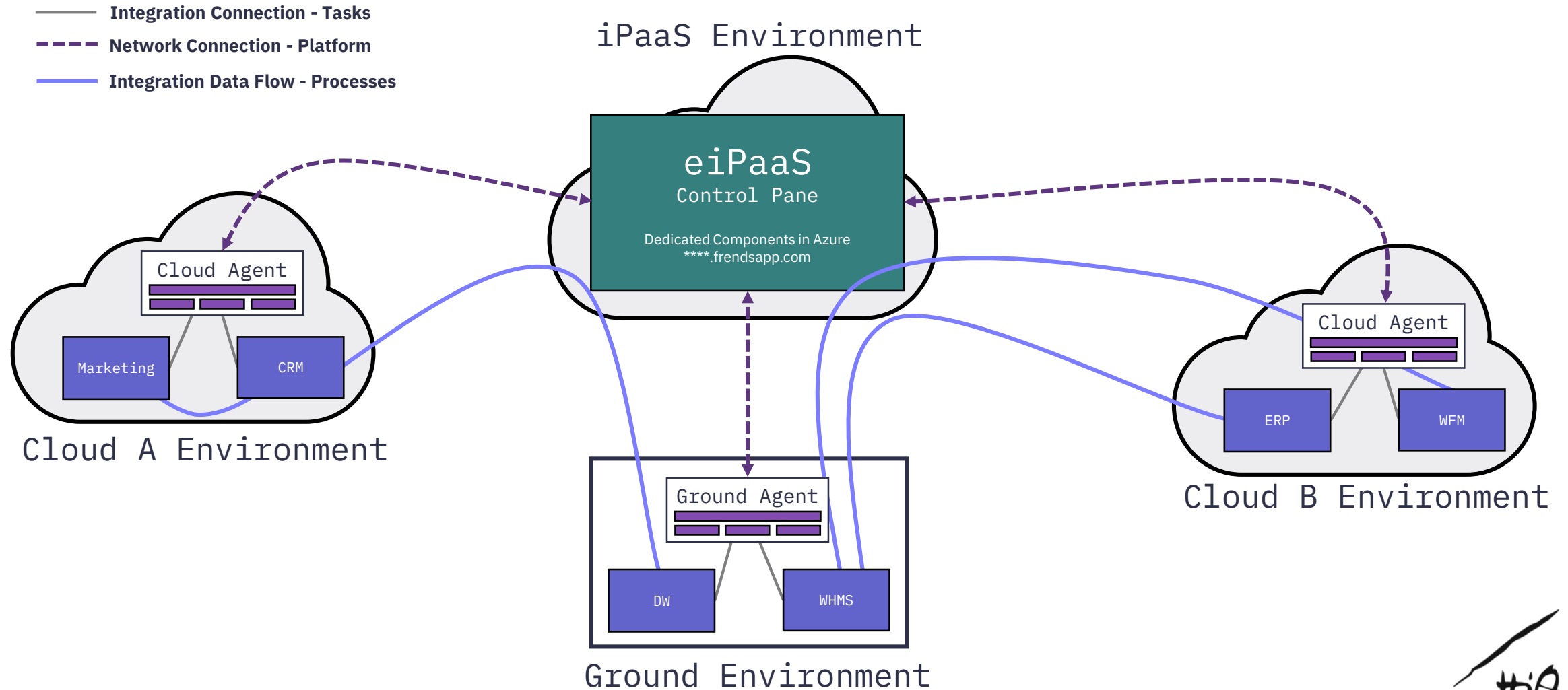
# API Economy – The Big Picture



thiQ



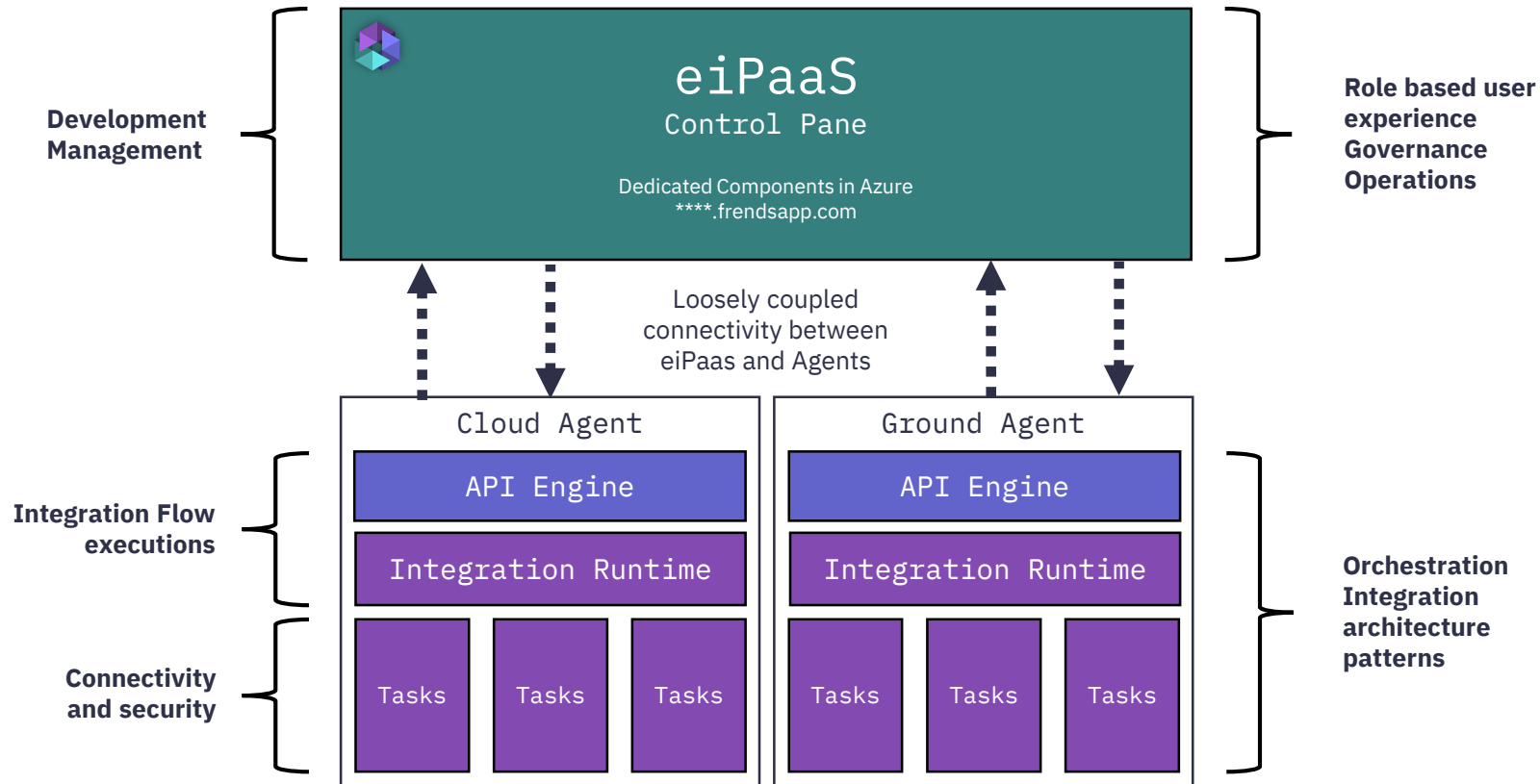
# Distributed Architecture = HIP





# Anatomy of FRIENDS

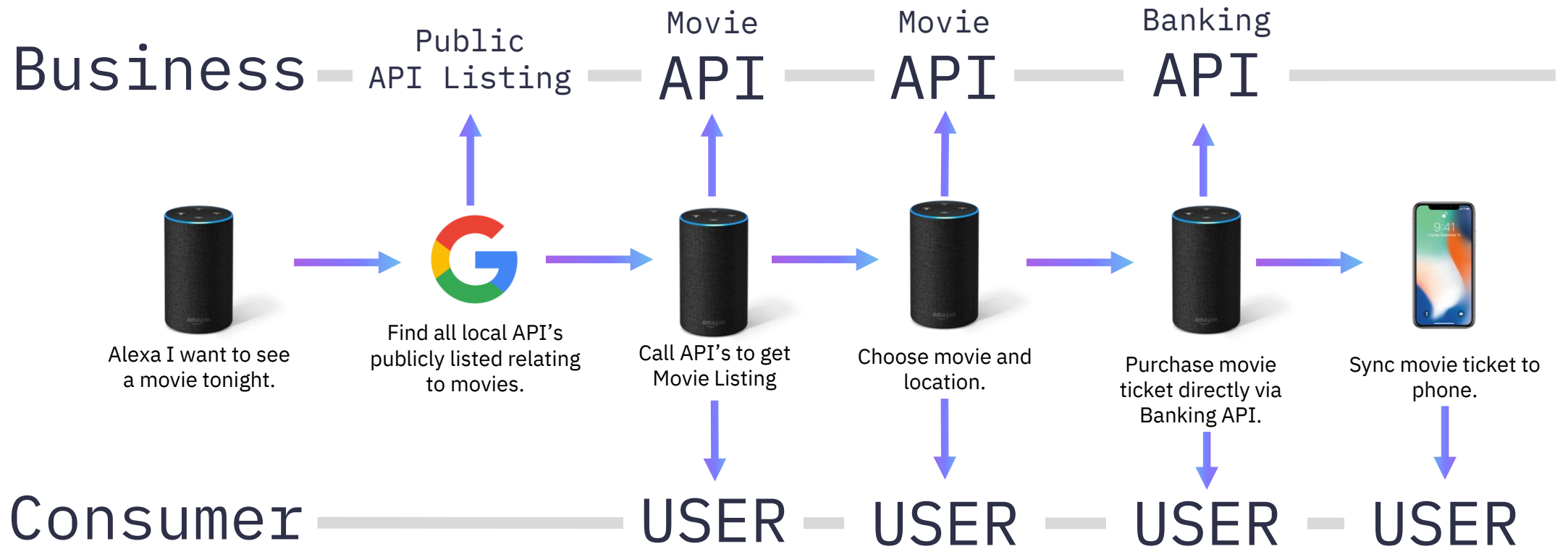
## FUNCTIONALITY



## HIP CAPABILITY



# Thinking 5 Years Forward





# FRENDs Tasks

## Web

REST, oData, Graph QL,  
SOAP, Form Data

## Data Storage

SQL, Oracle, MySQL,  
MongoDB, Amazon S3,  
Azure Blobs, Google  
Cloud Storage

## Files

SFTP, FTP, FTPS, Local  
File System, Shell  
Commands

## Security

oAuth, OpenID, Hash,  
SHA Encryption, PGP

## Queues

AMQP, MSMQ, JMS,  
ActiveMQ, RabbitMQ

## Data

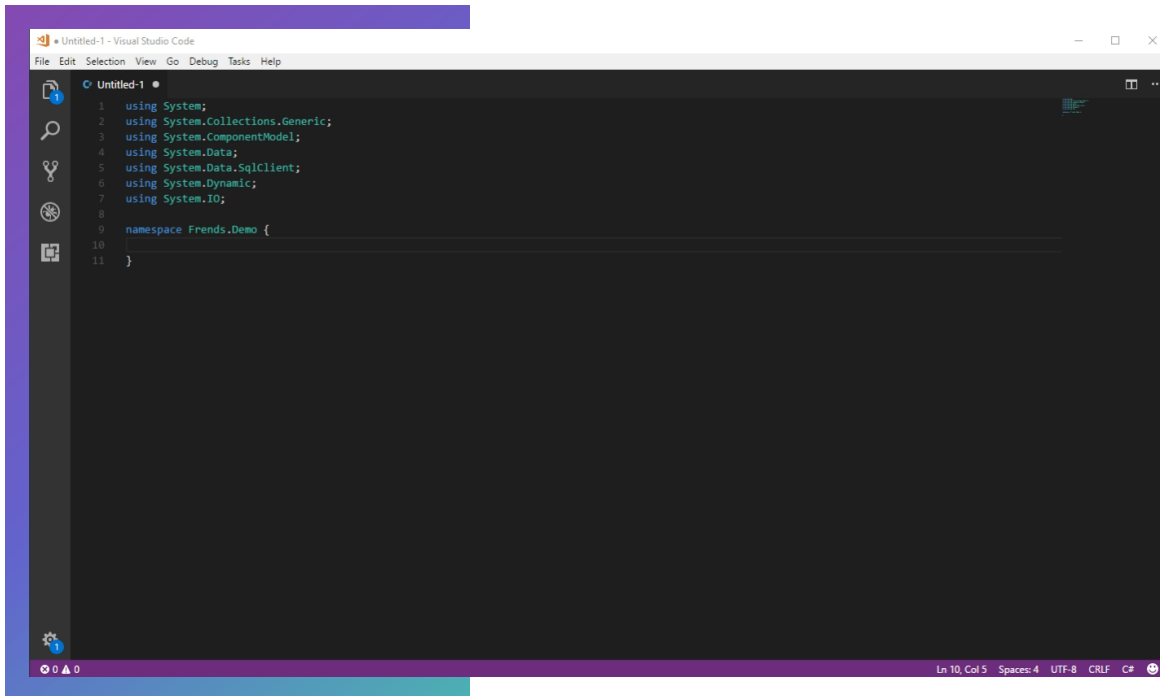
JSON, XML, CSV, Fixed  
Width, XSLT,  
Handlebars,  
JSONMap, Schemas

## Platforms

Windows Commands,  
Shell Commands,  
Azure, AWS, Google  
Cloud



# Extending FRIENDS Tasks



```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Data.SqlClient;
6 using System.Dynamic;
7 using System.IO;
8
9 namespace Friends.Demo {
10
11 }
```

## Create Your Own Tasks

Use pure .NET C# to create your own tasks or extend any of our existing tasks, they are open source.

<https://github.com/FriendsPlatform>





# Some of Our Customers

## Healthcare



## GEM



## Services



## Utilities



## Finance



## Industry





# Aalto University

Aalto University has an extremely complicated environment consisting of tens of systems and thousands of integrations serving hundreds of thousands of students. All the while trying to create the next generation of learning experiences supported by AR and an Open University concept.

Aalto University first tried solving their integration challenges with a competitive opensource integration platform. Whilst they were able to initially solve these problems, the infrastructure and operation of the previous platform was too complicated for efficient inhouse usage and there were not enough know-how in the market to actually deliver the solutions. FREnds to the rescue.

## +350 Systems

Achievement 01 of 03

## Change Pace +100%

Achievement 02 of 03

## First Changes in 20 Years

Achievement 03 of 03

**“With FREnds we are able to operate and understand everything without any technical knowledge.**

**We are using FREnds for everything from API's to File Transfers. ”**

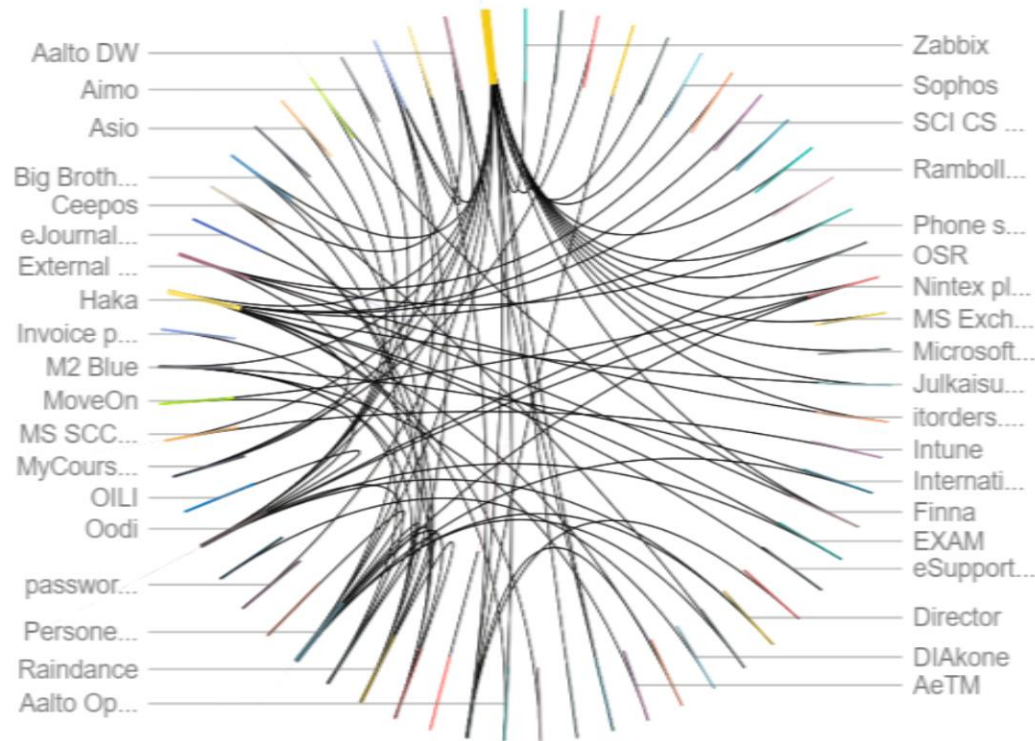
-Patrick Maltusch, Head of Integration



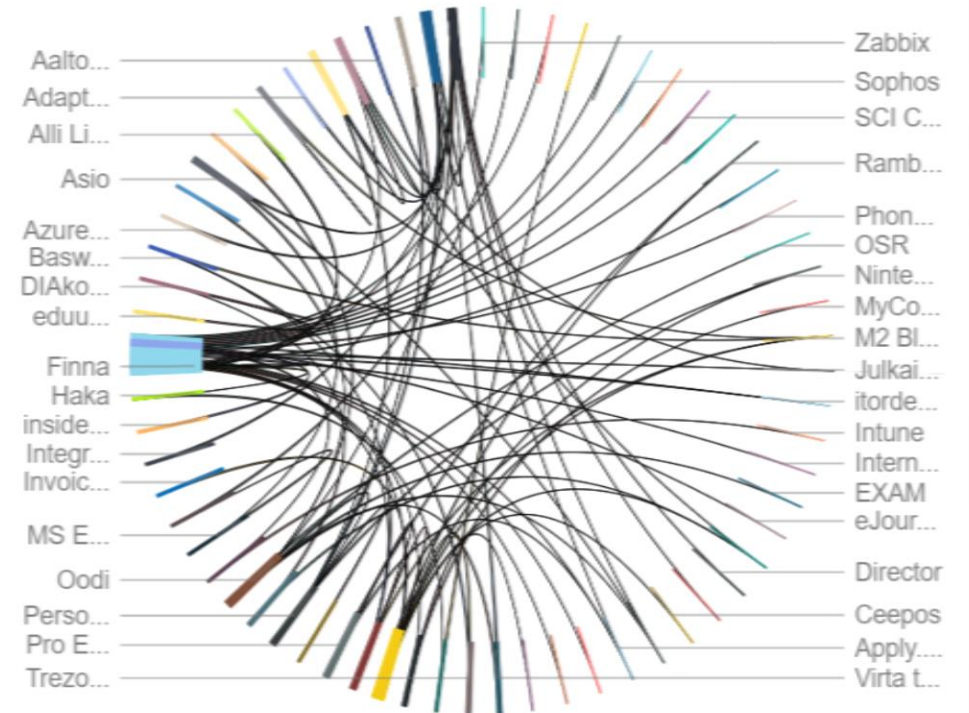


# Aalto University

Inbound 29



Outbound 37



Aalto University Integration Flow Map

hiQ



# Raisio



Raisio was in a difficult situation with multiple company mergers and over 8 ERP systems spread over multiple countries and sites. Raisio wanted to unify their business processes under a single SAP ERP system and decided to look for an integration platform to facilitate this.

Raisio chose FRENDS for its clear and understandable approach from the business owners perspective and together with SAP and Raisio's business were able to incorporate all of the 8 ERP systems into one in record time while also winning the **SAP Quality Award of 2017**.

## 8 ERP's Into 1

Achievement 01 of 03

## SAP Quality Award 2017

Achievement 02 of 03

## 20% Lower Project Cost

Achievement 03 of 03

**Our financial administration team, for example, are delighted as they no longer need to carry out manual searches and can focus on getting the real work done instead.**

-Sami Halinen, CIO





# S-Bank

S-Bank had a complicated situation with multiple legacy systems and multiple business needs including regulatory mandates such as PSD2. S-Bank had a previous generation integration platform that simply was not able to keep up with the fast changing requirements and chose FRENDS instead. With which S-Bank has been able to gain huge advantages with insourced development.

## 70% Lower TCO

Achievement 01 of 03

## Stability increase to 99.99

Achievement 02 of 03

## 60% Faster Time to Market

Achievement 03 of 03

**We chose the FRENDS integration platform for its superior features. The platform combines technical reliability with speed and flexibility. This enables us to respond to changing business needs. The platform is also very reliable: since the introduction of FRENDS, the number of production cuts due to faults with the platform dropped to almost zero.**

-Jan Kortessalo, CIO





# THANK YOU