# Microsoft Cloud Adoption Plan (Phase 1)

## Define Strategy

### Motivations and drivers

We want to have a more flexible IT setup, and be able to create and manage resources ourselves.

We want price transparency, and be able to take IT decisions based on the actual cost.

We want to be able to run anywhere. (Plug and play)

Innovate and modernize current application (Excel), to fit into a cloud setup.

### Business outcomes

What are the expected business outcomes from adopting the cloud?

#### High Priority:

Agility outcomes: Time-to-market

Scalability

#### Mid Priority:

Agility outcomes: Cycle time is a Six Sigma term that refers to the duration from the start to finish of a function.

Performance outcomes:

Reliability (Trade collectors uptime)

Performance (Be able to schedule large data integrations and calculations outside business peak hours).

### Business justification

We have a full responsibility and availability of our IT resources.

### First adoption project

List of excel sheet based on data from Azure SQL databases and output from R code.

### Key stakeholders

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### Cloud Strategy Team

Kell Pradsgaard Nielsen, Simon Brejnebjerg Jensen and Lars Normann Lund

## Plan

### Digital estate

|  |  |  |  |
| --- | --- | --- | --- |
| **Application/WorkloadBusiness** | **Business Unit** | **Priority (high, mid, low)** | **Proposed Rationalization** |
| Trayport MarketTrades | Energy Commodity | high | Rearchitect |
| R code running from edanalytics02 | MarketAnalytic | high | Rehost/Refactor |
| PointConnect | MarketAnalytic | high | Rebuild |
| MKOnline | MarketAnalytic | high | Rebuild |

## Database structure have we decided to use (Naming, Schemas, Data sources, External database etc.)

#### The Database setup consist of 5 layers:

1st layer - Holds all bulk tables, merge statements etc. No data should be stored here.

2nd layer - Holds stuff that is widely used across the databases. UTC to CET table, holiday calendar along with mapping and meta data for the databases etc.

3rd layer - Is the external data layer. Here we store external data from various sources (PC, WS, EM, Tesla etc.). All data in the same format.

4th layer - Is the working layer. Here each of the departments has their own database that may be structured however you like. Is used for working with the data, not for storing or showing to the end user.

5th layer - Is the model output layer. Here we store everything needed for models in operation. E.g. the Price Model, Einsman Model etc.

Bulk table and procedure naming:

* Table: Layer \_ Target \_ Source \_ ScriptName.
* Procedure: Layer \_ Import\_So Table
  + Example: Scraper that collects data from [**https://tennet.nl**](https://tennet.nl) and writes data to **3rd** layer **External** database is called **NL**T**ennetGrabber**.R
    - Bulk table: 3\_External\_Tennet\_NLTennetGrabber
    - Procedure: 3\_ImportExternal\_Tennet\_NLTennetGrabber