# **Current topics in cost allocation and custom API development in IBM Cognos TM1**

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## How banks, hospitals and retailers optimize and allocate costs now?

#### allocation result CC1 CC2 CC3 CC4 CC5 CC6 60 0 CC1 40 0 CC2 70 0 0 30 CC3 36 54 55 CC4 55 Tot 110 91 109

In Excels, Databases and Black Boxes. But they suffer from:

- Speed of execution
- Data decentralization
- Low parameterization
- Insufficient detail
- Week visual representation

## What-if the whole concept would be inverted upside down?

Bottom-up tree-like allocation algorithm Benchmarking results:

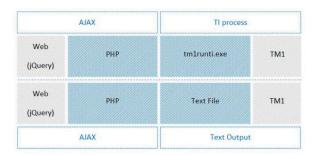
- 96 % faster
- 91 % less data
- 58 % decrease in complexity
- 65 % usability increase
- 24 % decrease in deployment cost

tr unique trace code !	ee visua	lization		
.3:CC5	CC5			100
.3:CC5.2:CC3		CC3		60
.3:CC5.2:CC3.1:CC1			CC1	35
.3:CC5.2:CC3,1:CC2	2		CC2	25
.3:CC5.2:CC4		CC4		40
.3:CC5.2:CC4.1:CC1			CC1	25
.3:CC5.2:CC4.1:CC2	2		CC2	15

Reengineer allocation algorithm

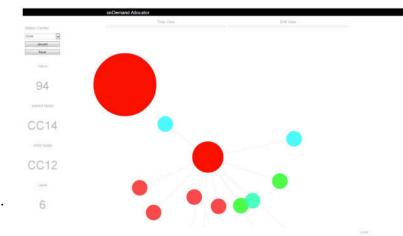
# Develop custom API to allocation engine

# How to free representation from rigid OLAP cube structure?



- Develop API to join OLAP back-end with web front-end.
- Leverage native TM1 utility to execute ETLs.
- Use PHP to build API resources and return data in JSON.
- Mix jQuery and Raphael to visualize results.

# Ad-hoc allocation tree



#### Thesis contribution:

- Ad-hoc allocation engine
- OLAP solution benchmarking
- General TM1 API
- analyticshumanly.com blog

