Introducing Dell EMC RCOE and its data projects

PGDays 2017, Saint-Petersburg

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DELL EMC

Dell Technologies is a **unique family of businesses** that provides the essential infrastructure for organizations to build their digital **future**, transform **IT** and protect **their** most important asset, information.

Dell Technologies consists of 7 brands

DELL EMC

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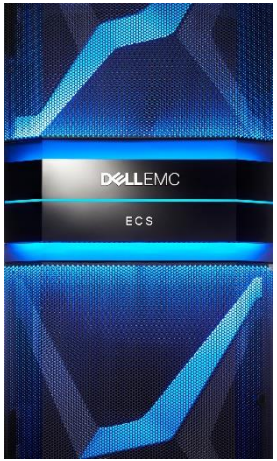
Dell EMC Russia Center of Excellence

Opened in 2007, celebrated 10 years anniversary

350 IT professionals

SW engineers, QA, DevOps, Professional Services, Consulting

Active collaboration with startups and universities



Commitment to customers to accelerate their digital transformation

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Russia CoE GTM Project office

Activate the Brand		Grow Business
Engage Ecosystem	Build Network & visibility	Empower Entrepreneurs
Connect with startup by engaging the ecosystem	***Amplify start up visibility ….***	***Maximize Dell SOW at all development phase of the Start-up***
Events organized with partners Partnership with Incubators, VC (Venture capital..), Investment funds, …	Events / Innovation corner Conference Competitions Customer visits White papers, Testimonials, case studies Digital/Press articles…	Special conditions Financing solutions Partner with Start-up to sell their solutions Build business partnership

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Broad events portfolio

200+ applicants for Dell EMC nomination of GoTech contest

Joint GTM as a winner prize

Meetups and Data Driven transformation seminars for customers

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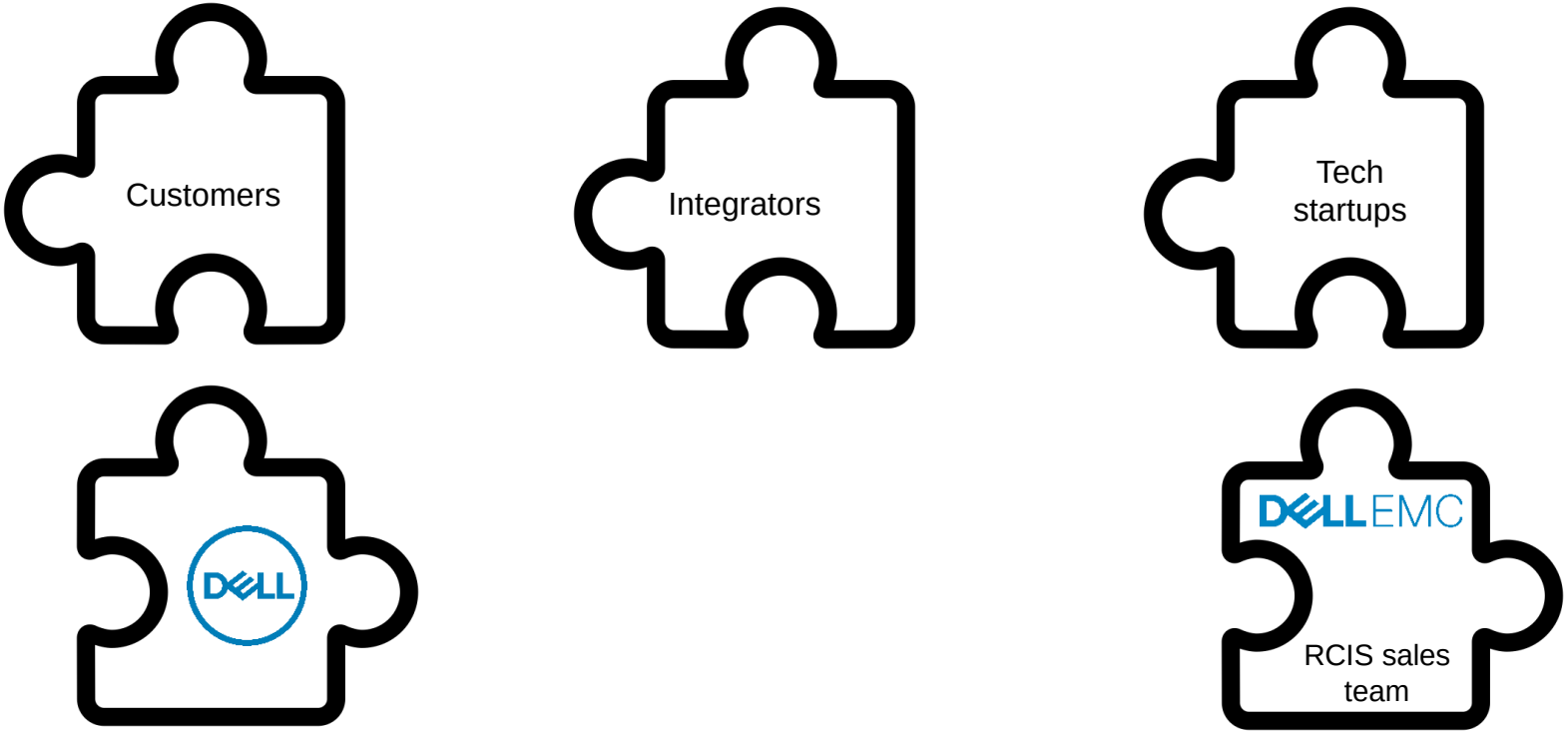
RCoE GTM Project Office is a Synergy platform between…



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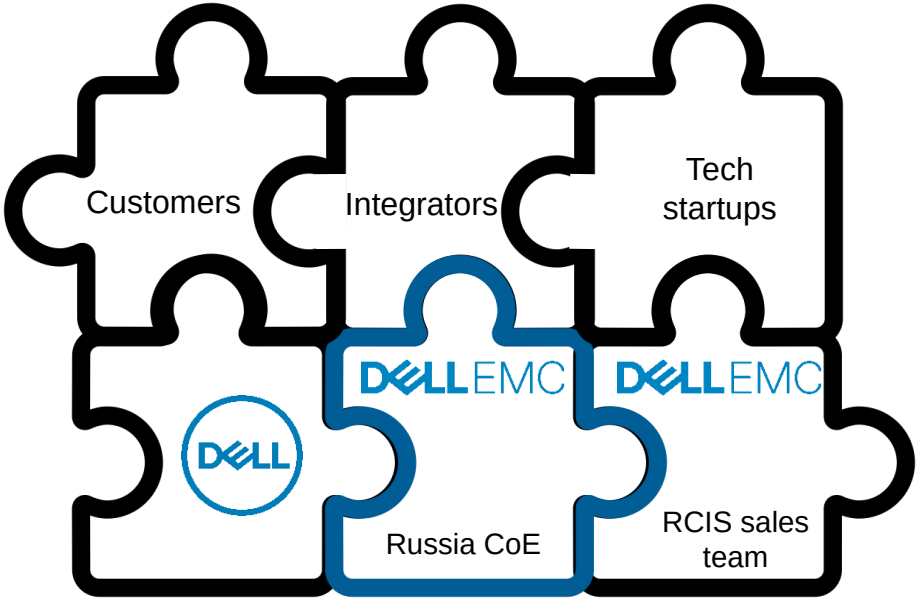

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NIT: Scientific and Research Project

Data Size

Public data: **1 TB**
Articles: **5 000 000**
Comments: **100 000 000**

Private data: **70 TB**

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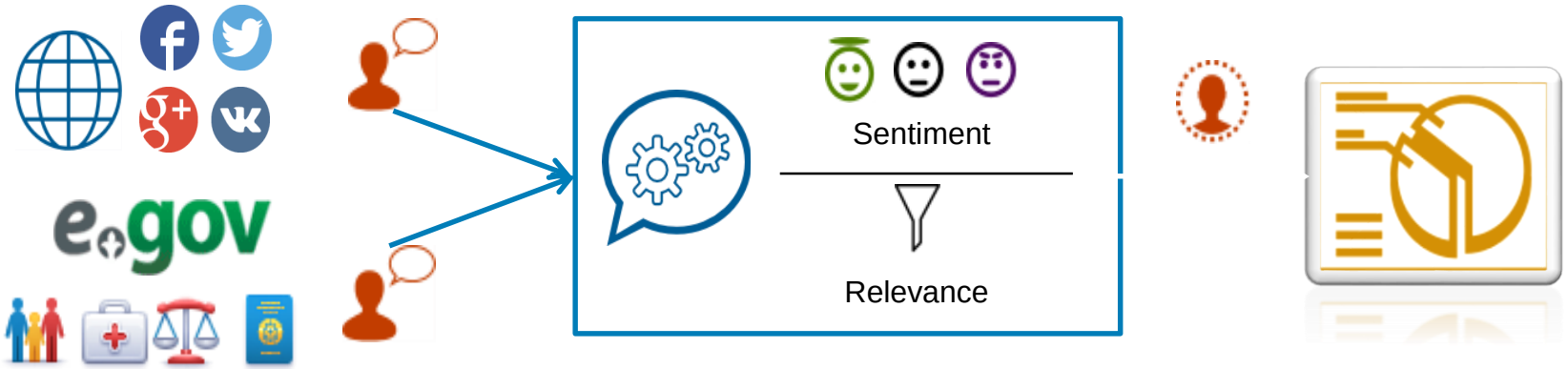
Improving e-government services for Kazakhstan citizens

Joint project with iWings company , Pivotal and newly formed data science group at NIT

What is the project?

Analysis of open data to improve consistency and quality of electronic services

Creation of a set of recommendations



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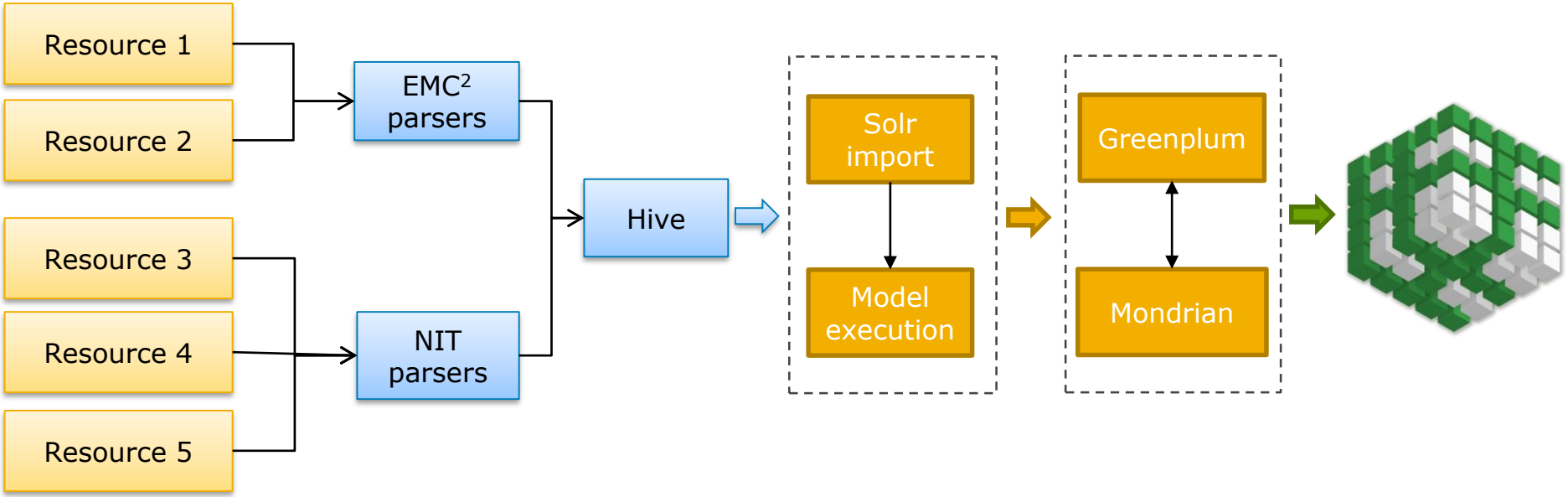
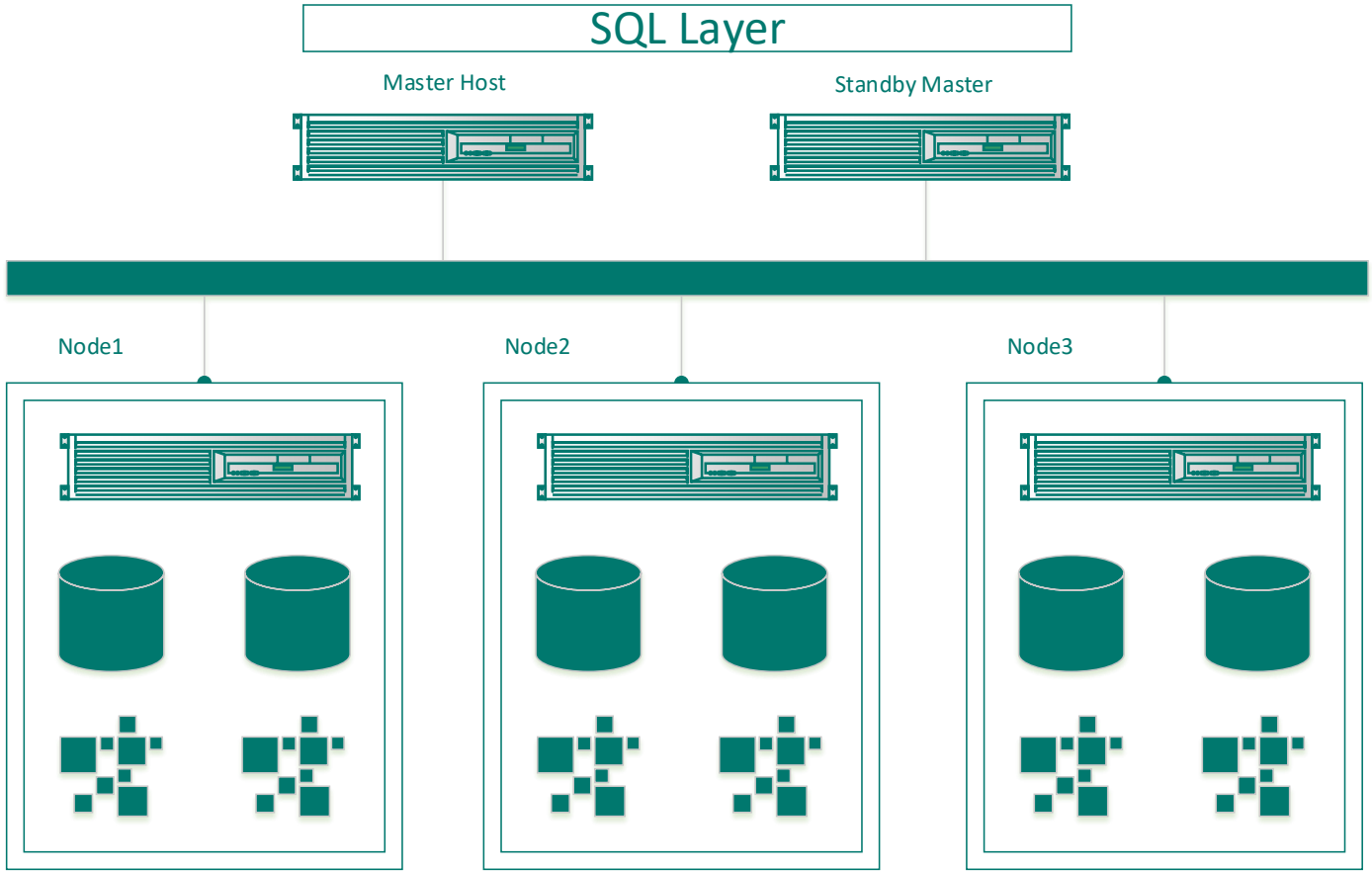
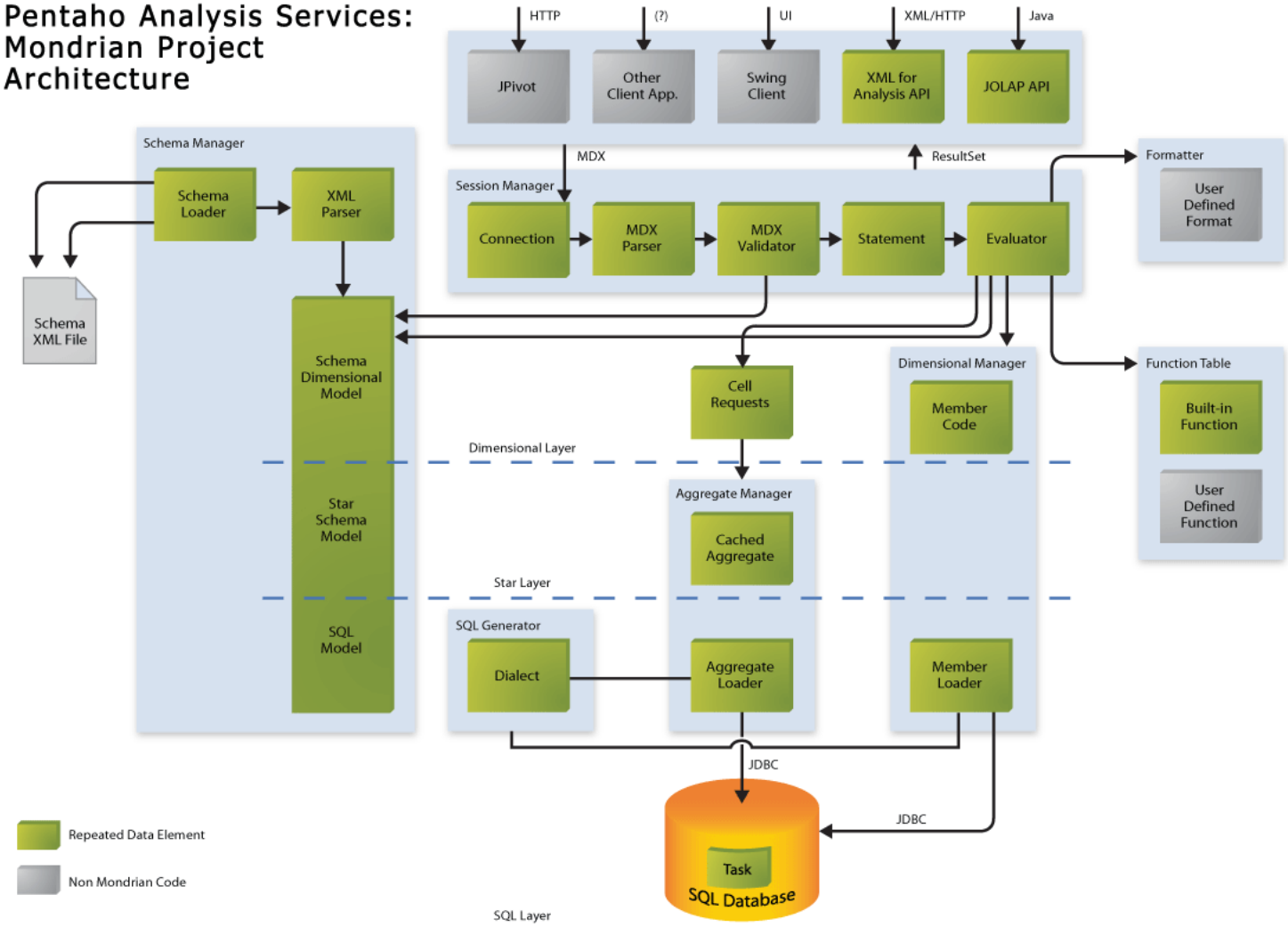
GREENPLUM IN LAMBDA ARCHITECTURE SERVING LAYER


Resource 1
Resource 2
Resource 3
Resource 4
Resource 5
EMC² parsers
NIT parsers
Hive
Solr import
Model execution
Greenplum
Mondrian

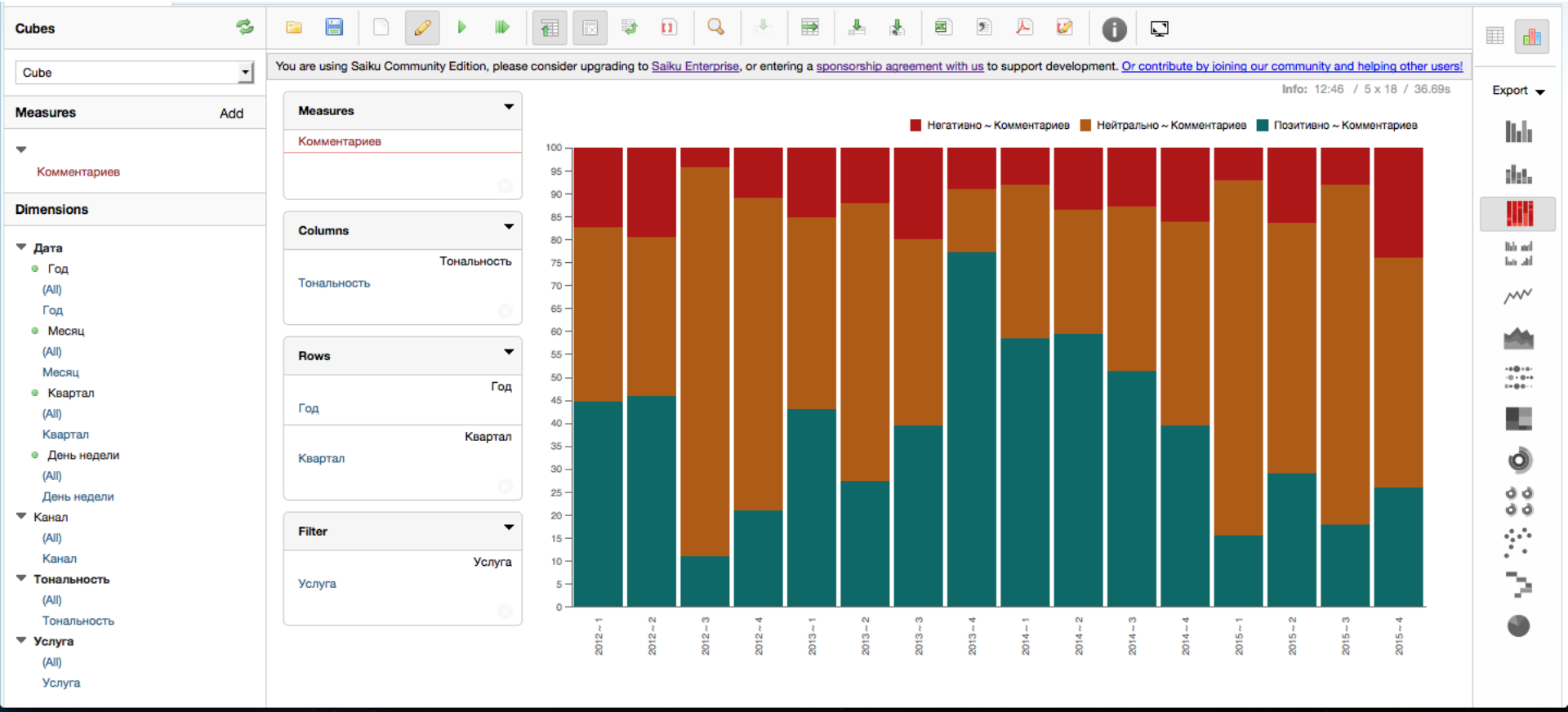
GREENPLUM MPP ARCHITECTURE



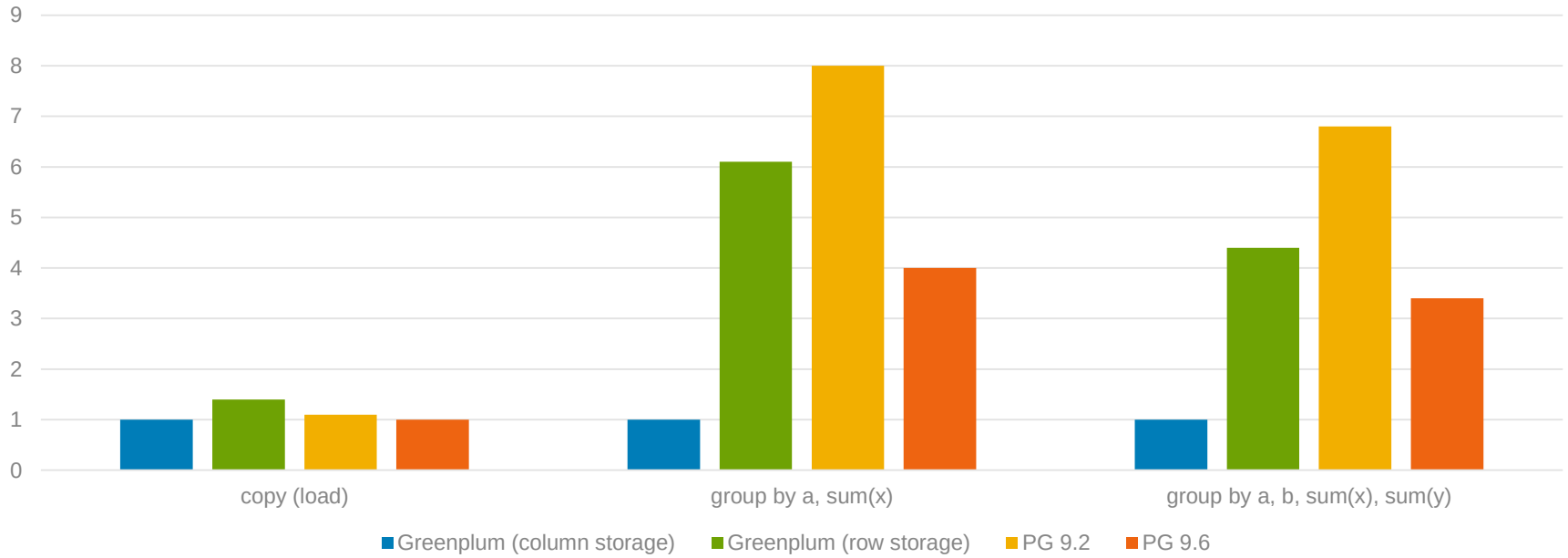
Pentaho Analysis Services: Mondrian Project Architecture



PENTAHO (SAIKU BI)



TEST RESULTS 1



2 x Xeon E5-2609; 48 GB RAM; 4 x 300 GB SAS

TEST RESULTS 2 (1200M RECORDS, 100 GB)

	Greenplum (column storage)	Greenplum (row storage)	PG 9.2	PG 9.6
group by a, sum(x)	72 sec	500 sec	600 sec	380 sec
group by a, b, sum(x), sum(y)	150 sec	510 sec	720 sec	370 sec

http://stat-computing.org/dataexpo/2009/

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