

与云和商业智能共舞

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议程

- 云和商业智能
- 云中的商业智能服务
 - SQL Azure Reporting (报表服务)
 - SQL Azure Data Sync
 - SQL Azure Federations
 - Windows Azure Data Market (数据集市)
- 云和商业智能案例

商业智能的发展

Traditional BI

Self-Service BI

Provision



Analysis



Reports



Dashboards &
Scorecards



ETL/Data
Quality



Analysis
Cubes



Data
Warehouse

Existing
Data



LOB
Applications



Data Marts



Files



IT Pro



End Users



Specialized Tools



Spreadsheets

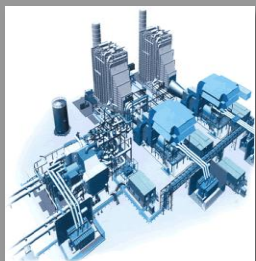


提升运营效率 降低风险 提高决策质量 满足需求

企业IT的挑战



大规模的配置，部署和管理服务器



用现有的知识和工具集 - 更快实现，更高效的开发应用程序



基础设施费用的增长作为一个IT支出总额的百分比

云的影响

新经济



- 支付你所使用的费用
- 降低和预测成本
- Capex 和 Opex 的转变
- 加快实现价值的速度

降低管理



- 不许要打补丁，维护
- 更快的部署
- 强大的多层次的安全
- 可靠和容错性

更多的机会



- 为用户提供最新的软件
- 联网协作
- 随时随地访问
- 即时自主配置

商业智能

提供服务



Analysis



Reports



Dashboards &
Scorecards

ETL/
数据质量



Analysis
Cubes



现有数据



LOB

Applications



Data Marts



Files



IT Pro

必须考虑的问题

数据量

扩展性

应用程序依赖项

延迟需求

数据的敏感性

SLA需求

规管和法规遵从性

商业智能和云

- ▶ 商业智能解决方案和云的结合
- ▶ 扩展商业智能的常景
- ▶ 利用对外的公用数据源
- ▶ 利用现有的开发人员工具和信息工作者工具

在云中的商业智能服务

- ▶ 迁移商业智能负载到云端，并用到云的特性
- ▶ 适合度跟负载有关
- ▶ 私有和公共云的选
- ▶ 评估经济和组织方面的考虑

Windows Azure 平台

一般用途的编程语言



Windows Azure 平台



计算



存储



管理



CDN



App Fabric



集市



Microsoft®
SQL Azure™



关系数据库



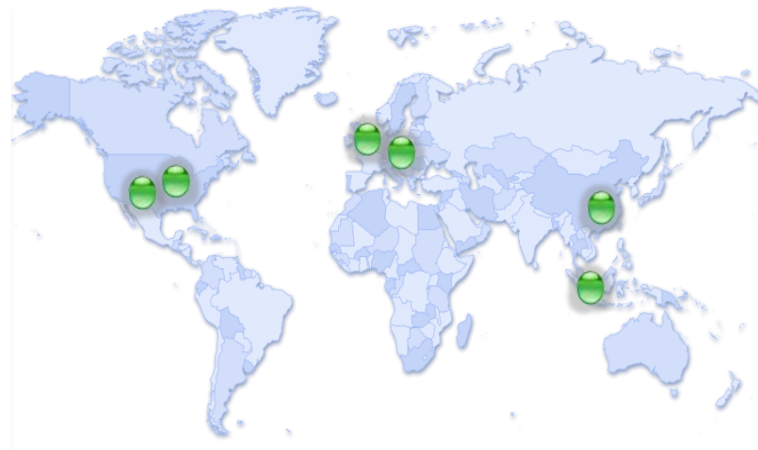
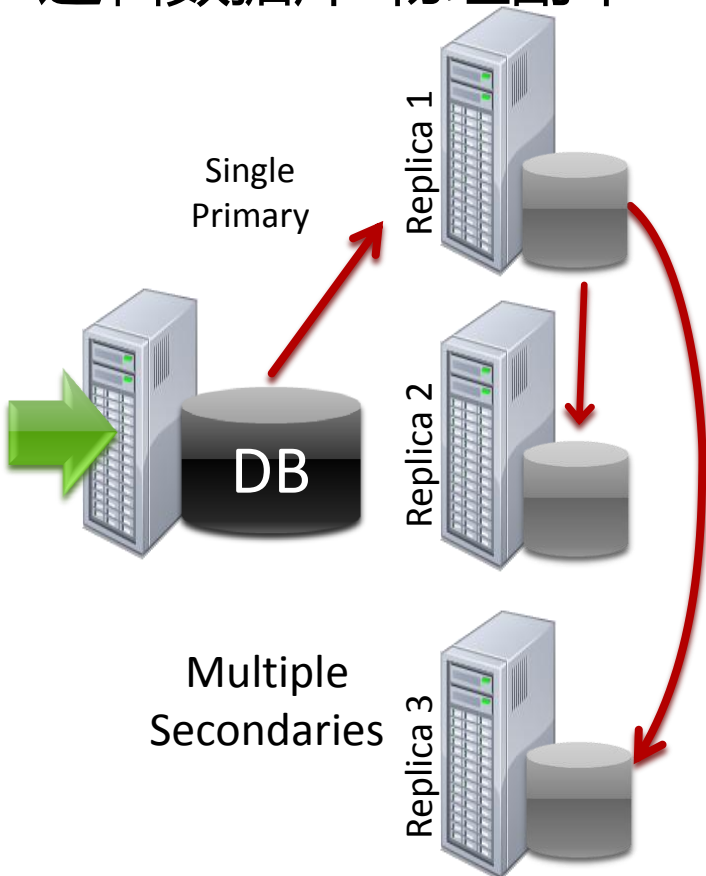
Reporting



Data Sync

SQL Azure Database

单个
逻辑数据库 多个
物理副本



- 基于 SQL Server 引擎的云关系数据库
- 使用熟悉的工具、数据访问框架、基于 T-SQL 语言
- 全球数据中心
- 高可用性和冗余
 - Reads are completed at the primary
 - Writes are replicated to a quorum of secondaries

SQL Azure Reporting CTP



功能:

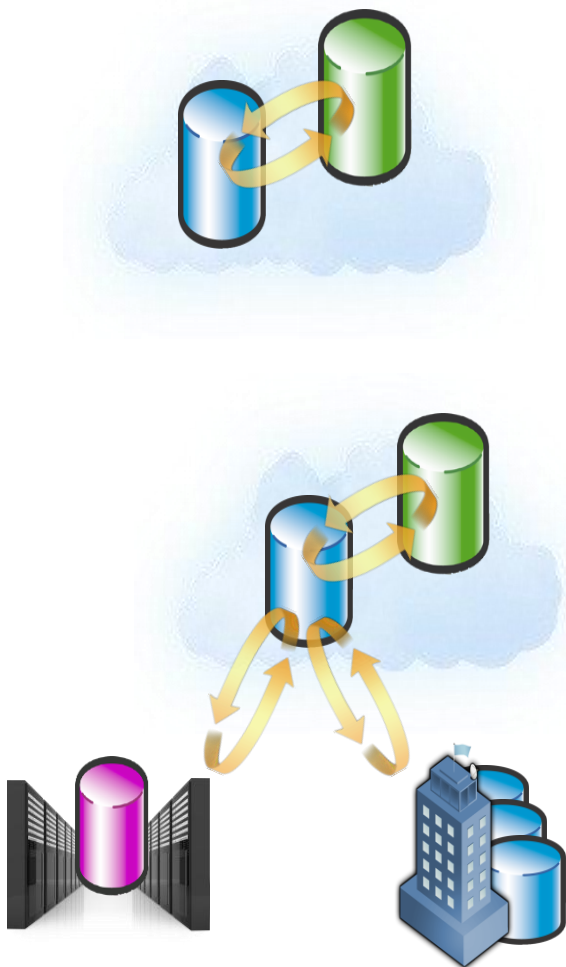
- 基于SQL Server报表服务
 - 互动性的报表
 - 数据展现: 图表, 图表, 绘图, 仪表
- SQL Azure 数据源
- 用 BI Developer Studio (free) 创建报表
- 导出到 Excel, PDF, CSV格式

核心常景:

- 对 SQL Azure data 的工作报告
- 让报表嵌入到Windows Azure或在企业中的应用程序

演示 - 商业智能和云

Demo

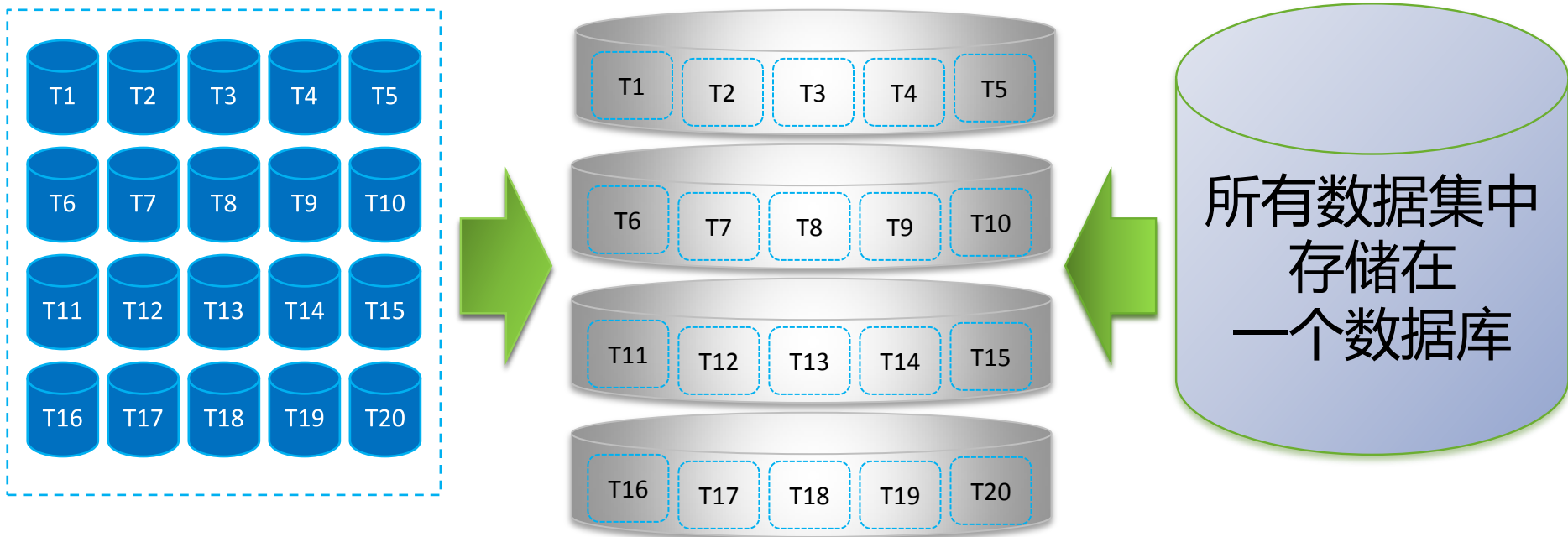


- 把内部的数据同步到云端
 - 让数据跨出企业到云
 - 创建脱机缓存体验
 - 和分支办公室和移动设备同步数据
 - 同步多个 SQL Azure 数据库
 - Geo-Replication, Read/Write Scale out
- 不许要用代码来做数据同步
 - 轻松定义要同步的数据（不许要编写代码）
 - 选择数据如何同步
 - 处理相同的数据在多个地点的改变的问题
 - 管理功能能跟踪数据和监测问题

横向扩展数据库 Database Scale-out

SQL AZURE FEDERATIONS (即将推出)

- 所有数据都放在一个数据库中？太大...
- 一个租户一个数据库？数据库太多、高成本...
- Sharding Pattern: better



What are Federations in SQL Azure?

- Federations are objects that allow scaling-out of data for building data tier applications with unlimited scalability and best price-performance through amplifying backend elasticity and simplified multi-tenancy at the database tier.

◆无限扩展

◆在线动态伸缩

◆简单灵活的多租户数据模型

Windows Azure Marketplace

Demo

简单的
发布

开发人员
信息工作者独
立软件供应商

信息集市

数据提供商

易于发现
和注册

GLOBAL HEADQUARTERS
2775 Shermer Road
Northbrook, IL 60062
USA Phone: 847.583.2100
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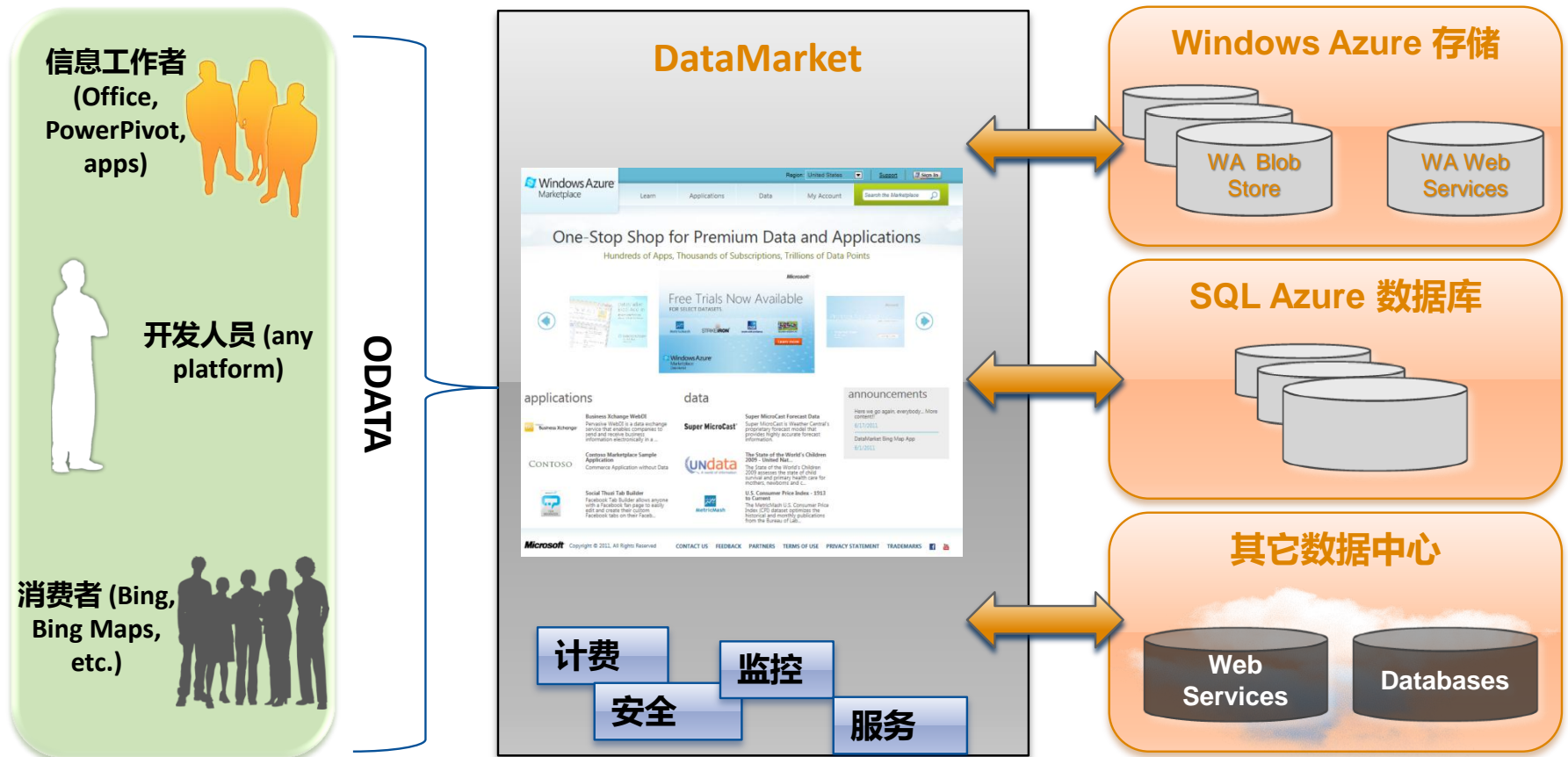
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DataMarket架构





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Marketplace

DataMarket

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CCH CorpSystem Sales Tax Rates

published by: Wolters Kluwer

date added: 11/23/2010

data

CorpSystem Sales Tax Rates Databases provide the industry's most comprehensive database of sales and use tax rates - researched and maintained by CCH, the professional's first choice for sales tax research.



China Small & Medium Enterprises Management & Operation KPI Data

published by: Chanjet Software Co., Ltd

date added: 6/17/2011

data

There are over 40 million small and medium-sized enterprises (SME) in China. SME represents 99% of businesses in China, 60% of the economy and accounts for 75% of the employment. Chanjet provides SME operation and management KPI data based on its nationwide survey conducted among SMEs from multiple industries in China. The survey seeks to learn about the SME operational and management expertise, and feedback on growth prospects of their businesses to provide a better view of the SME market.



Consumer Expenditure Data

published by: Alteryx, LLC

date added: 10/26/2010

data

A dataset containing a large collection of key consumer expenditures on goods and services for geographic or geometric areas around a known location measured in miles or minutes.

PowerPivot for Excel - Book1.xlsx

Home Design

Clipboard: Paste Append, Paste Replace, Copy, From Database, From Report, From Text, From Other Sources, Refresh, PivotTable, Reports

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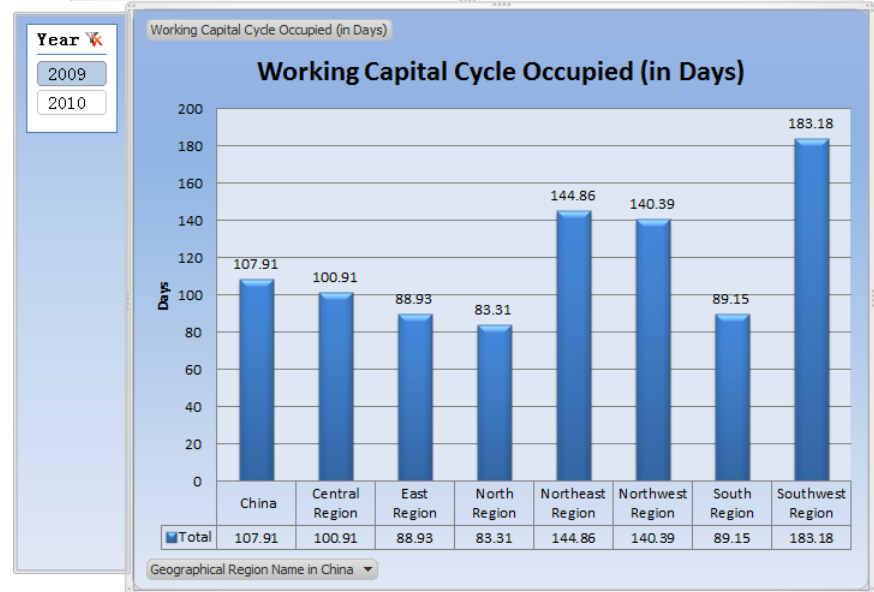
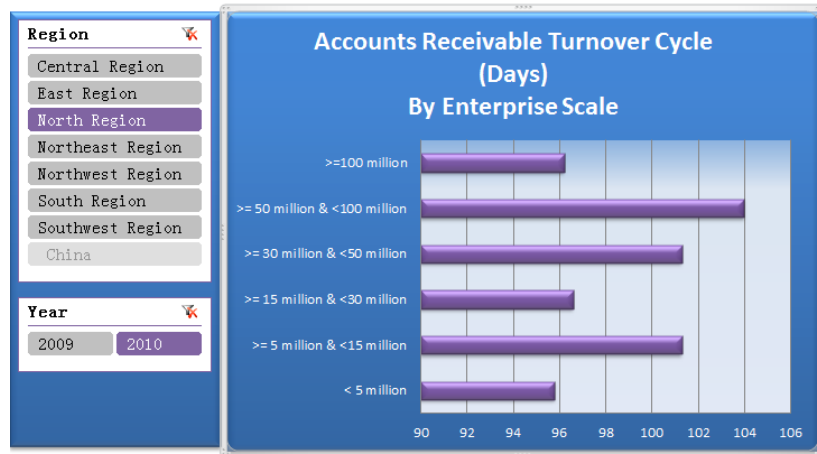
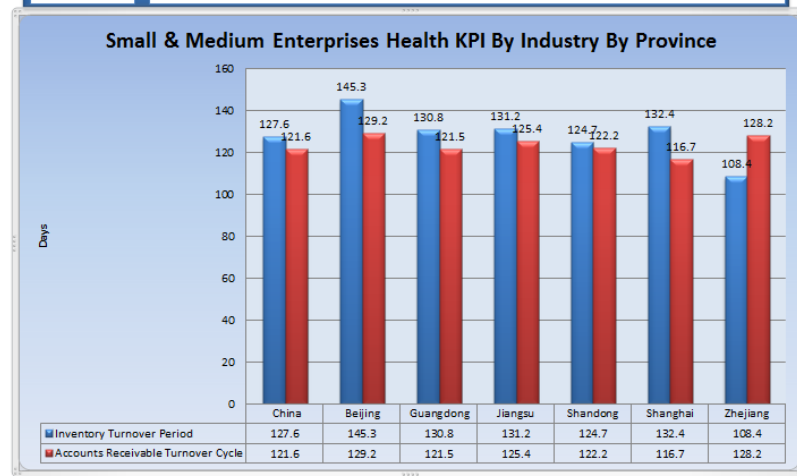
[ReportYear] 2009

ReportYear	IndustryID	InventoryTurnoverRatio	AccountsReceivableTurnoverRatio	OperatingMarginRatio	SalesGrowthRatio	ProfitGrowthRatio
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2009	2	1.8	3.2	12.9	-5.3	-4.6
2009	3	2.4	2.9032	6	-0.2	2.6
2009	4	4.6753	5.2174	10.4	-6.7	-7.2
2009	5	3	5.8065	12.8	5.1	-1.8
2009	6	3.7895	5.625	10.5	5.1	5.4
2009	7	3.1034	3.3028	11.2	-5.5	-3.6
2009	8	4.0909	4.186	13.1	9.7	6
2009	9	3.3962	4	14.6	9.7	8.2
2009	10	1.6981	2.7068	14.5	3.5	3.3
2009	11	5.2941	3.4951	5.8	8.8	7.6
2009	12	5.9016	1.5	6.4	0.1	0.3
2009	13	2.6087	3.2	9.3	1.5	9.2
2009	14	2.5899	3.3028	12.4	-3	0.01
2009	15	1.9048	2.293	8.2	-0.11	3.4
2009	16	3.1034	5.0704	4.2	13.9	7.8
2009	17	4.3902	4.2857	12.3	4.2	3.2
2009	18	5.4	6.3158	5.8	11.5	3
2009	19	4.9	3.3028	7.5	2.2	2.1
2009	20	4.6997	4	6.3	2.6	-4.2
2009	21	3.7895	5.625	8.1	-6.2	3.5
2009	22	2.7907	2.7907	4.6	-2.7	-19.2
2009	23	2.7068	3.2	19.7	2.4	1.4
2009	24	3.1034	4.2857	7.6	6.5	2.4
2009	25	2.1951	3.4951	1.1	2.8	2.8
2009	26	6.4	5.0704	12.3	-2.4	5.8
2009	27	8.7805	5.0704	7	1.8	8.7
2009	28	5.9016	4.6753	11.2	-4	5

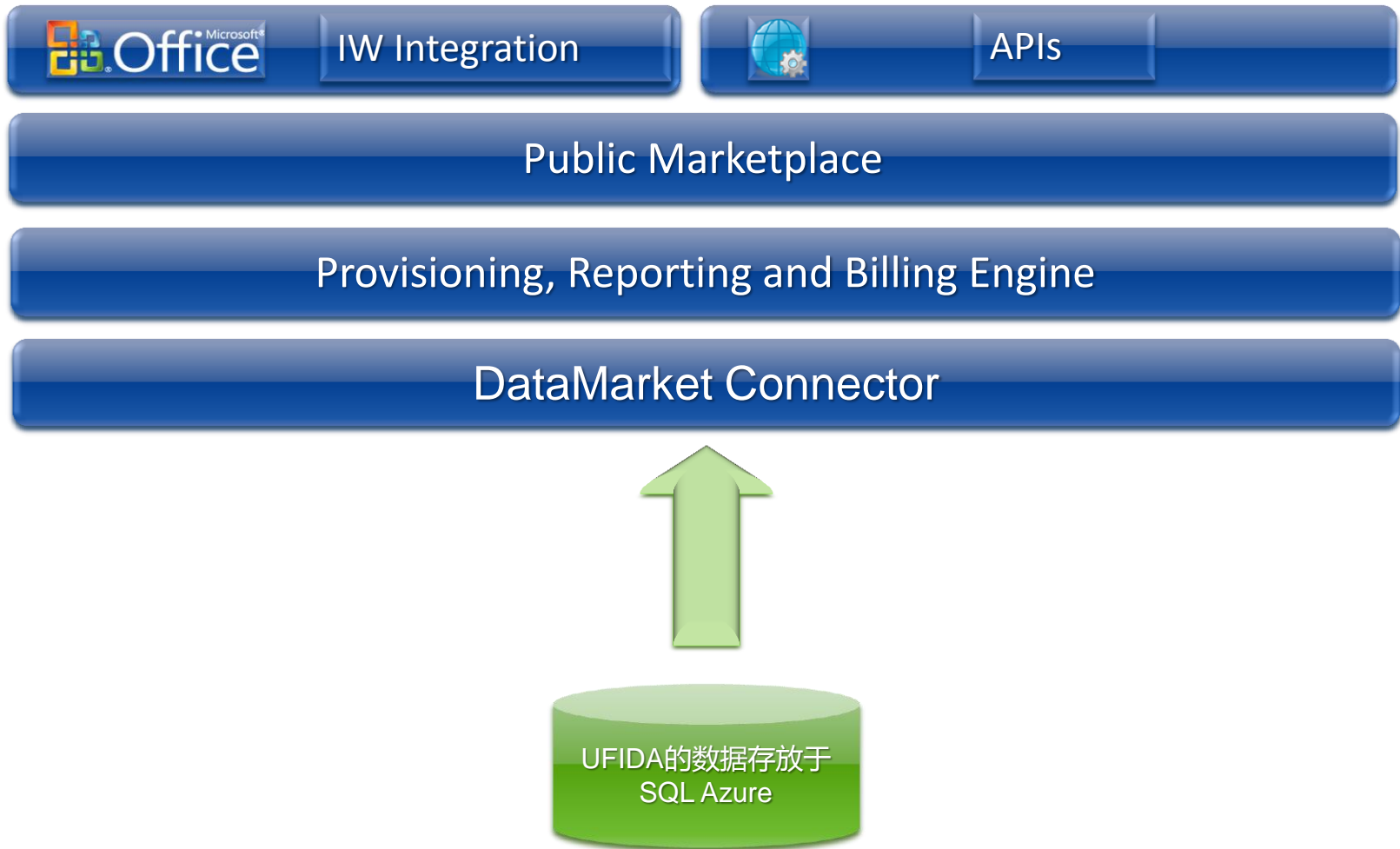
GeographyInfo | Industry | SMEHealthIndex | SMEHealthStandardByIndustry | SMEHealthSurveyStats | SMEOperationKPIByEconomicRegion | SMEOperationKPIByEconomicZone | SMEOperationKPIByGeographic

Year: 2009, 2010

Industry: Auto Parts Manufacture, Chemical Industry, Clothing and Shoes, Electronics Industry, Home Appliances, Machinery Industry, Material Trade, Metal Products



架构概述



演示 - 数据集市

Demo

资源

- SQL Azure

<http://www.microsoft.com/windowsazure/sqlazure/>

- Windows Azure Marketplace 数据与应用集市

<https://datamarket.azure.com/>

- SQL Azure 报表

<http://www.microsoft.com/windowsazure/features/reporting/>

Question & Answer

问题和解答

键入请求演示者解答的问题。

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如需提出问题，请在此区域输入文字，并单击“问题和解答”右上方的“提问”按钮即可。

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