



# 大数据时代医药营销赋能

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# 大数据深度客户洞察 赋能销售一线团队

## 超级战队

### 持续改进闭环管理



### 大数据整合

- CDW存储多数据源，实时更新
- Tableau BI工具实现数据可视化方案
- 多个数据收集终端对医生观念、处方推荐、信息接受



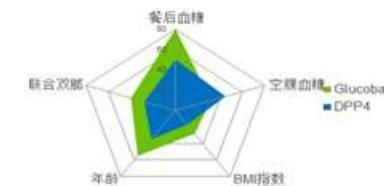
### AI推荐方案

- 通过线上医生推荐的行为洞察客户对品类、品牌偏好观念进行细分
- 人工智能算法与推广信息进行匹配，最终形成对医生个性化的推荐方案



### 医生个性化信息传递

- 精准洞察客户对不同病人类型的品牌推荐行为
- 知己知彼，精准传递信息，实现处方行为改变



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# 持续改进闭环管理

# 大数据整合

# AI推荐方案

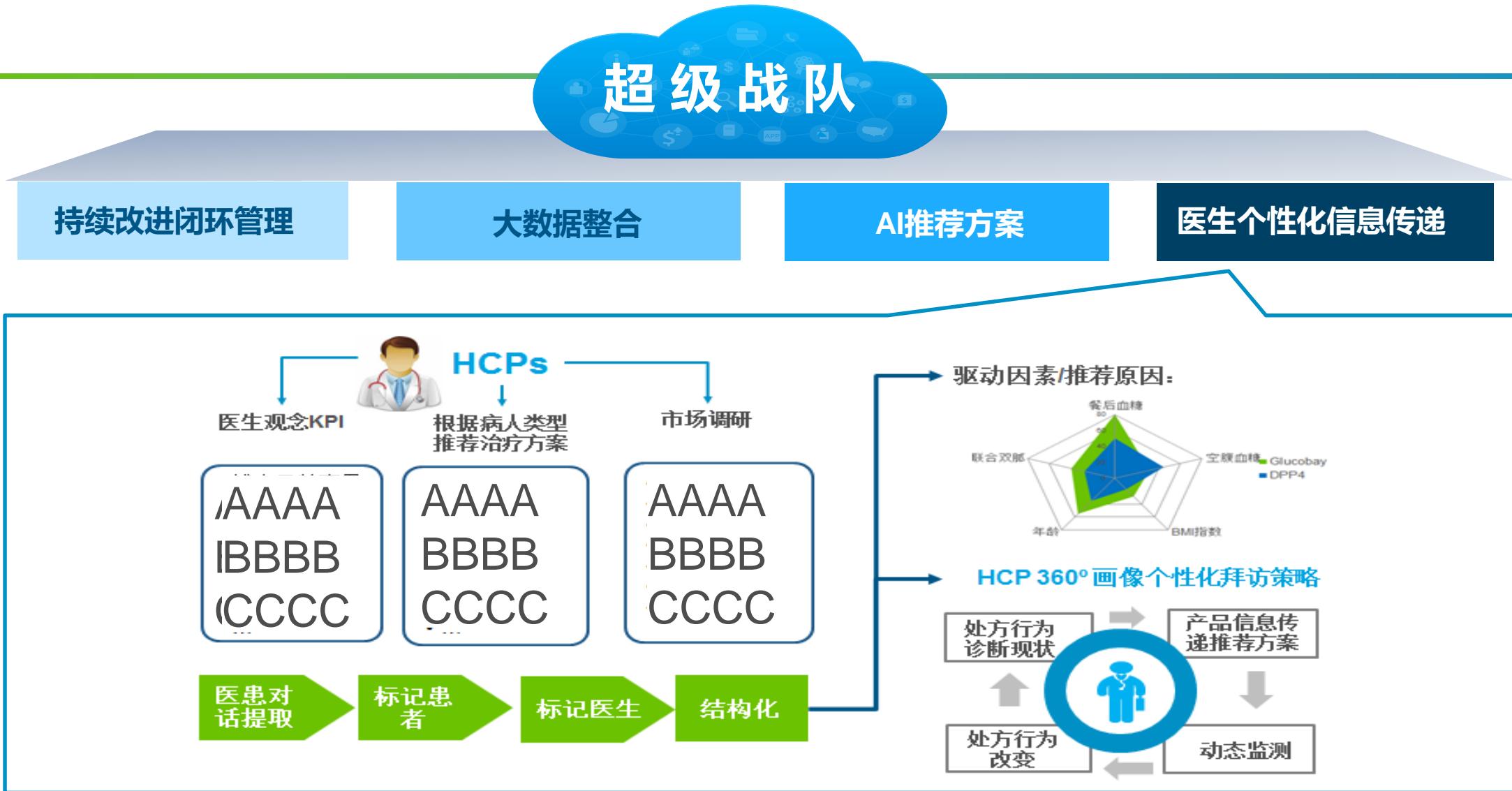
## 医生个性化信息传递



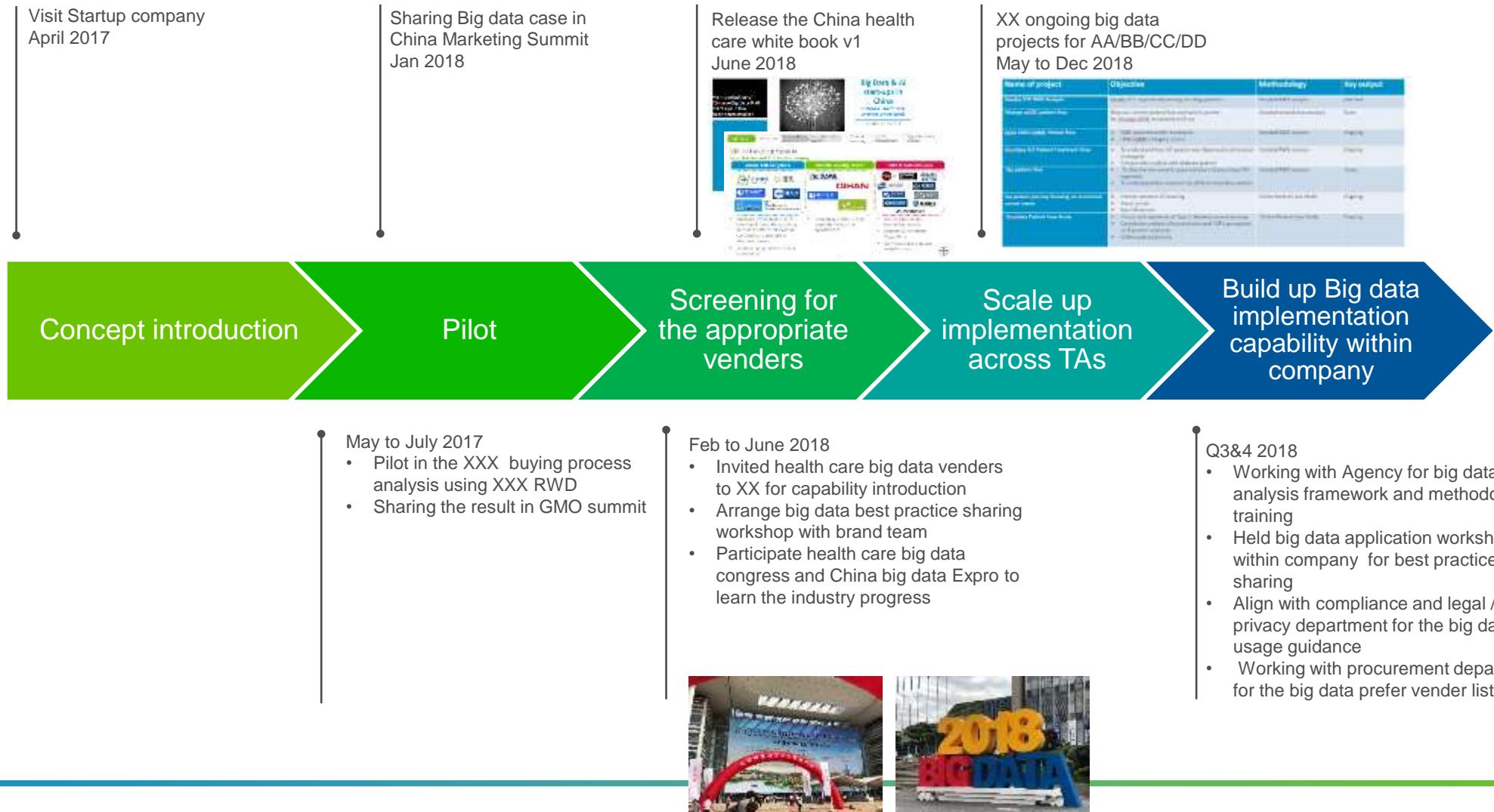
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# Buildup big data analysis capability within company



# Customer insight 360® – Prototype from XXX strategy execution excellence project

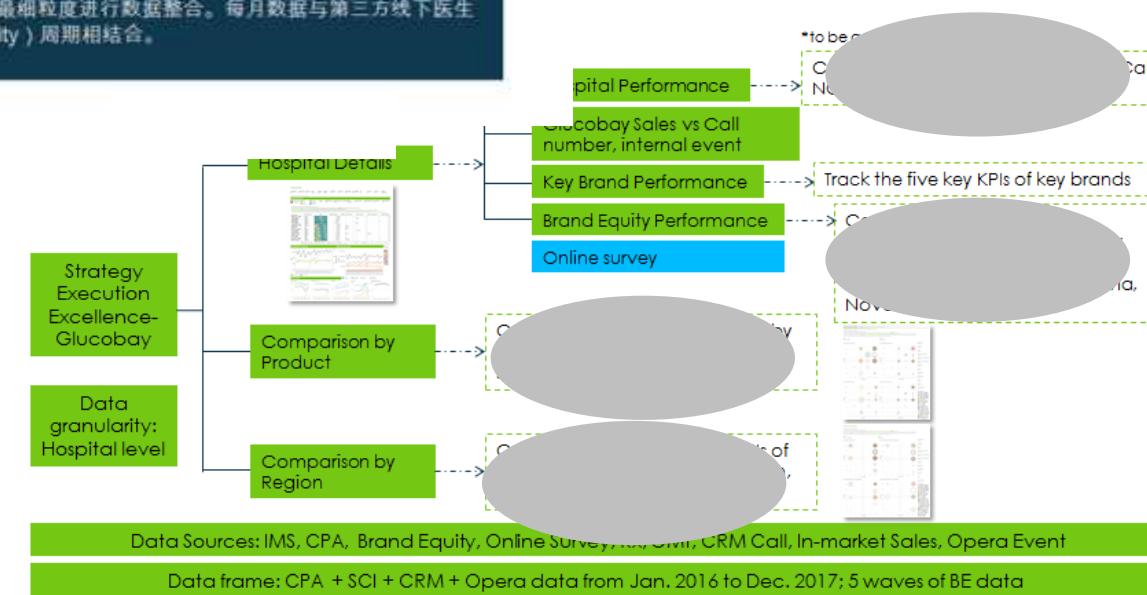


## Hospital analysis dashboard

This dashboard facilitates the analysis & comparison of hospitals from multiple angles for marketing & sales teams.  
本报告旨在支持市场&销售团队对医院绩效的多角度对比分析

Data sources: CPA, Brand Equity, Online Survey, CRM Call, In-market Sales, Opera Event.

All sources integrated with each other on hospital level. To enable comparison, the various data points are aligned with the respective Brand Equity time periods, e.g., sales growth within Brand Equity wave.  
本报告以“医院”为最细粒度进行数据整合。每月数据与第三方线下医生访谈（Brand Equity）周期相结合。



# Hospital Dashboard Prototype

One-stop-shop easy use powerful tools to integrate all internal and external KPIs

Multiple filter to select the target hospital group

**Hospital Detail**

HospitalLevel Top200 PowerPlus ChinaDNA Date Date Type Measure IHS Region Province Region District City City Level Territory IHS Region Province ...

(全部) (全部)

These filters control all the charts below. 以上筛选项控制以下所有图表。

**Hospital Performance**

Wave 参与周期 BE Attend times 参与次数 Comparison Product 对比产品 BE KPI NPS 是否... (全部) (全部) (全部) (全部) (全部) (全部) (全部) (全部) (全部) (全部)

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• All internal and external KPIs are integrated in hospital level  
 • Easy ranking and comparison can help to identify the outlier hospital  
 • One-stop-shop indicators cover input/output/process management/HCP perception can provide 360 degree customer insight in hospital



Input Performance

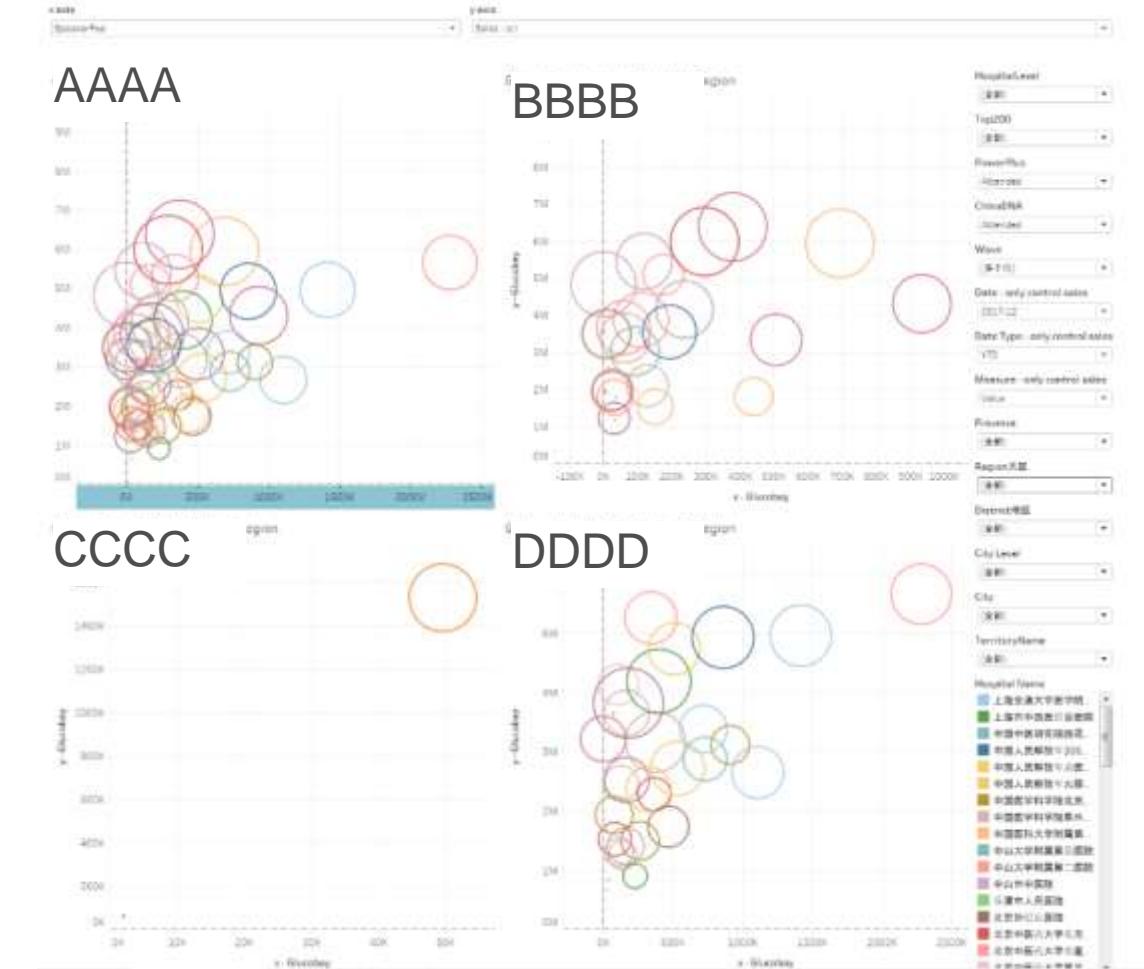
Input Call Input Events/Speaker fee Process HCP perception Process MR coverage/Satisfaction Process HCP Brand equity/Rx driver Process HCP message recall

GR% - chosen product	GR% - Glucobay *	GR% - chosen product	CRM Call Number	Event Number	Speaker Fee	OS 总售表注 Overall Perform	OS 有无控重总曲率 HPG	Glucobay MR Visit	Glucobay Satisfaction	Glucobay Rx Score	Glucobay Rx PPG Score	Glucobay KPS Score	Glucobay Rx Recall
↑ 3.7%	↑ 23.4%	↑ 6.9%	1,999	114	493.40	1.0	1.0	100	88	100	100	62	81
↓ -0.5%	↓ 6.9%	↓ 0.4%	2,302	82	142.39	1.2	1.2	100	88	100	100	62	81
↑ 0.1%	↑ 18.3%	↓ -0.9%	894	418	213.21	1.0	1.0	100	88	100	100	62	81
↑ 0.9%	↑ 30.3%	↓ -0.5%	382	98	41.00	1.0	1.0	100	88	100	100	62	81
↑ 0.0%	↑ 1.0%	↓ -0.9%	987	264	693.40	1.0	1.0	100	88	100	100	62	81
↓ 0.2%	↓ -0.1%	↓ -0.7%	443	100	178.00	1.0	1.0	100	88	100	100	62	81
↑ 0.2%	↑ 4.7%	↓ -0.5%	1,465	88	12.44	1.0	1.0	100	88	100	100	62	81
↑ 1.2%	↑ 6.0%	↓ -0.7%	227	114	12.00	1.0	1.0	100	88	100	100	62	81
↑ 0.8%	↑ 12.2%	↓ -0.2%	1,135	105	127.00	1.0	1.0	100	88	100	100	62	81
↑ 1.2%	↑ 7.6%	↓ -0.8%	2,062	11	129.00	1.0	1.0	100	88	100	100	62	81
↑ 2.6%	↑ 27.9%	↓ -0.3%	493	11	129.00	1.0	1.0	100	88	100	100	62	81
↓ -0.5%	↓ -24.2%	↓ -0.9%	1,666	11	129.00	1.0	1.0	100	88	100	100	62	81
↓ -10.0%	↓ -27.4%	↓ -0.3%	220	49	75.25	1.0	1.0	100	88	100	100	62	81

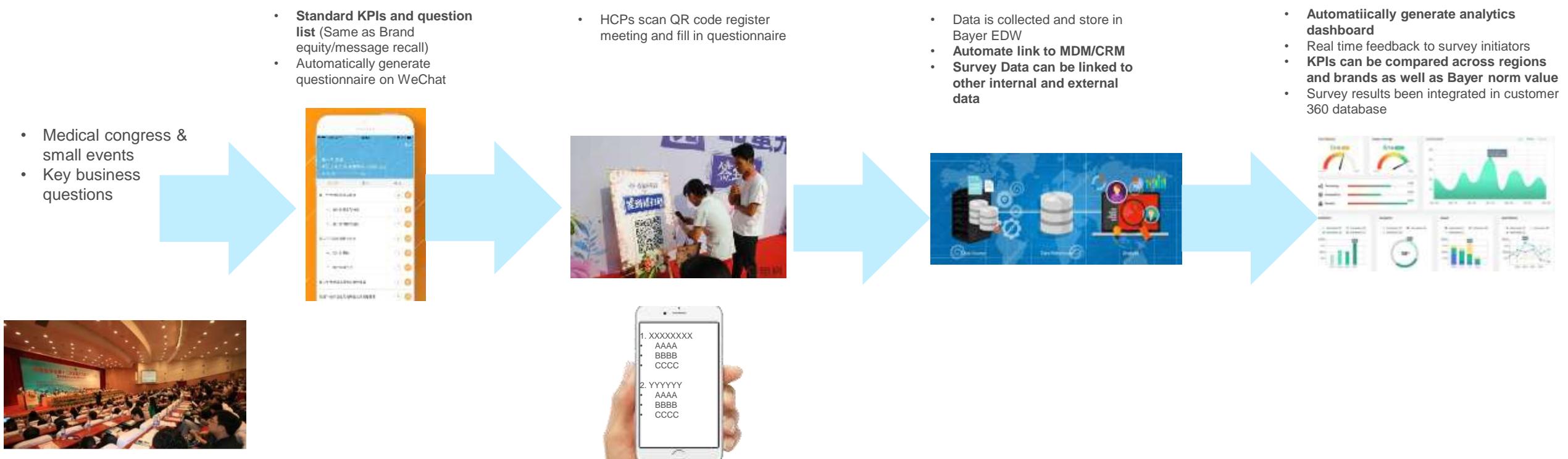
# Hospital level KPIs trend can help to dig out more customer insight



# 4 dimension analysis can help to visualize the correlation among different KPIs



# Company Survey Portal



# Survey Portal (unmet needs and key value)

- Small sample size and low frequency
- Delay of result
- Only national / big cities level , cannot provide insight in hospital level
- Ad hoc study , survey data not easy to store/integrated for further comparison and analysis
- High cost



- Large sample size,
- Real time analysis and HCPs level insight
- Result can be auto link to other internal and external data for further analysis
- Result can be compared across region/brand/hospital
- Cultivate trend data within consistent KPIs for future advanced/predictive analysis
- Low cost (IT development)

# Traditional Market Research VS Real Word Evidence Research

Traditional Market Research	Big Data & Real World Evidence Research
Sampling	Universes
limited dimension	Multiple/unlimited dimension
Fixed results	Exploratory discovery
Fixed view	Flexible view
New idea—New discovery—New tech	New tech—New discovery—New idea
Explore deep concept	Analyze real life data

# 医药大数据应用主要考虑因素

数据的质量：

- 数据的代表性
- 数据量
- 数据覆盖的范围：全领域/专病
- 数据的可扩展性

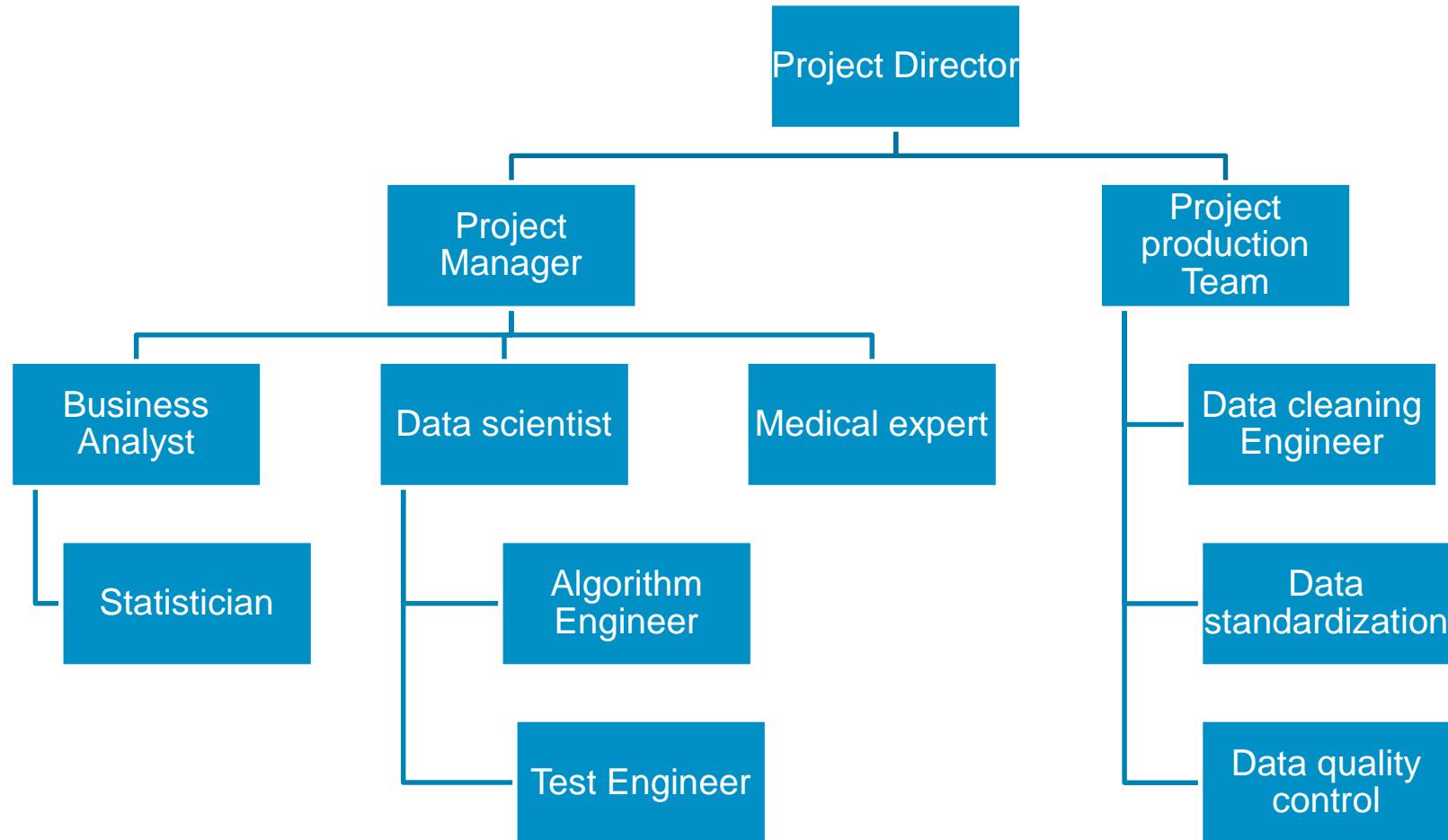
数据提供方的数据处理能力：

- 是否有方便快捷的数据查询平台
- 信息是否标准化
- 数据处理适合商业分析和临床研究需求
- 管理/整合其他大数据资源的能力

数据提供方的跨领域合作团队的能力

- 数据提供方理解业务需求，洞察结果，咨询建议的能力
- 是否有健全高效的数据库，算法，医学，市场咨询，客户团队

# Typical big data analysis project team need multiple cross function expert



# 大数据项目的成功因素

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- 接受并努力尝试 新数据 新方法
- 正确解读数据/结果
- 沟通 沟通 沟通
- 与传统方法，其它数据相结合
- 总结 分享

# 医药企业迎接大数据时代的挑战

## 数据获取/整合

- 主数据管理
- 客户 360 数据库
- 企业云
- 企业数字化转型
- 流程数据化再造

## 数据展示/报告

- KPIs framework
- BI 分析平台
- Reporting/Dashboard 平台

## 数据分析/加工

- 数据加工/再生
- 数据科学/高级分析
- 数据挖掘
- 人工智能/机器学习

## 对外合作/并购

- 战略合作
- 并购
- 创新企业孵化



未来已来 拥抱变革