***Bid Data Survey***

Recent business needs and advancements in technology and access to data have put Big Data on the agenda of many executive managers

1. **Which of the following best describes your title?**

* Chief Information Officer ( )
* Chief Medical Information Officer ( )
* Chief Digital Information Officer ( )
* Chief Security Officer ( )
* Chief Medical Officer ( )
* Chief Nursing Informatics Officer ( )
* Chief Nursing Officer ( )
* Chief of Staff ( )
* Director of Nursing ( )
* Director of Technology ( )
* IT Director ( )
* IT Manager ( )
* VP of IT ( )
* VP of Population Health ( )
* Other (please specify): ( )

1. **Which of the following best describes the type of organization at which you are employed?**

* Academic Medical Center ( )
* Stand-Alone Hospital ( )
* Hospital that Is Part of a Delivery System ( )
* Corporate Offices of a Health Care System ( )
* Other (please specify): ( )

1. **What types of programs and other organizations is your organization a part of?**

*Please select all that apply*

* Accountable Care Organization ( )
* Bundled Payments ( )
* Clinically Integrated Network ( )
* Integrated Development Network ( )
* Medicare Shared Savings Program ( )
* Provider-Payer ( )

1. **Which of the following best describes the number of beds in your organization?**

* Less than 50 beds ( )
* 50-100 beds ( )
* 101-250 beds ( )
* 251-500 beds ( )
* Greater than 501 beds ( )
* Other (please specify): ( )

1. **Which of the following best describes the number of employees in your organization?**

* Less than 1000 staff ( )
* 1000 to 10000 staff ( )
* Over than 10000 staff ( )

1. Comparative level of existing investment VS. Future investment in IT and Big Data?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Exiting IT Budget | Future IT Budget | Exiting Big Data Budget | Future Big Data Budget |
| Less Than $10,000,000.00 |  |  |  |  |
| Up to $100,000,000.00 |  |  |  |  |
| More than  $1 billion |  |  |  |  |

1. How would you rank the top challenges your organization will face in 2017, 2018, and 2019? 10 is strong

Challenge and 1 is lowest challenge,

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2017 | 2018 | 2019 |
| Bracing for potential changes to the Affordable Care Act with the shift to a new American Healthcare Act | ( ) | ( ) | ( ) |
| Being adequately prepared for a cyber security threat/attack | ( ) | ( ) | ( ) |
| Optimizing value out of my organization’s EHR/EMR system to demonstrate ROI | ( ) | ( ) | ( ) |
| * Moving to value-based reimbursement models, e.g. Medicare Access and CHIP Reauthorization Act (MACRA) | ( ) | ( ) | ( ) |
| * Being adequately prepared for a cyber security threat/attack | ( ) | ( ) | ( ) |
| * Improving physical and virtual access to primary and specialty care | ( ) | ( ) | ( ) |
| * Being adequately prepared for a cyber security threat/attack | ( ) | ( ) | ( ) |
| Enhancing patient engagement and experience | ( ) | ( ) | ( ) |
| Upgrading our systems to incorporate new offerings, such as telehealth/virtual care | ( ) | ( ) | ( ) |
| Building and implementing our population health management strategy | ( ) | ( ) | ( ) |
| Maximizing our revenue cycle systems to identify opportunities for margin improvement | ( ) | ( ) | ( ) |
| Process efficiency | ( ) | ( ) | ( ) |
| Developing Business intelligence patient & health care staff can interact with data | ( ) | ( ) | ( ) |
| Regulatory compliance | ( ) | ( ) | ( ) |
| Improve risk management | ( ) | ( ) | ( ) |
| Implementing cloud-based technologies/solutions | ( ) | ( ) | ( ) |
| Other (please specify):   |  | | --- | |  | | ( ) | ( ) | ( ) |

1. To what extent do you agree with the following statement?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly  Disagree | Somewhat  Disagree | Neither  Agree nor  Disagree | Somewhat  Agree | Stronger  Agree | Don’t  know |
| Regardless of the shift to a new presidential administration, the shift to value-based care will continue. |  |  |  |  |  |  |

1. To what extent do you agree of your organization to the movement of technologies/Big Data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Somewhat  Disagree | Neither  agree nor  Disagree | Somewhat  Agree | Stronger  Agree | Don’t know |
| Our overall business strategy is closely linked to our technology strategy | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Our executives have the vision/leadership required to navigate the coming changes | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Our analytics capabilities are better than those of our competitors | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Our organization collaborates effectively | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Our organization is open to change and receptive to new ideas | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Our organization thinks long term in planning and returns on investment | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| We are able to change our existing products/services to take advantage of changing technology | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Our organization governs data well | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| The expectations for Big Data in our organization understand | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Big Data is a strategic risk to our organization | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Big Data is strategic opportunity for our organization | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| The expectations for Big Data in our organization are overstated | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Developing a strategy for big data is urgent for our organization | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| We have a strategy for what we are going to do with big data in our organization | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| We are ahead of our competitors regarding bid data | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |

1. How much could you explain to your management or a colleague about Big Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Not much | Basic facts | Essential details | Latest developments | Technical details |
| ( ) | ( ) | ( ) | ( ) | ( ) |

1. What period of time your organization plan to have a movement to Big Data planning and production.

|  |  |  |  |
| --- | --- | --- | --- |
|  | planning | In production | Don’t know |
| AT present time | ( ) | ( ) | ( ) |
| Within six months | ( ) | ( ) | ( ) |
| Within one year | ( ) | ( ) | ( ) |
| Within two years | ( ) | ( ) | ( ) |

1. How your organization do view Big Data and analytics on Current and Future types for analysis?

On Navigating and movement in collection of different data management resources.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Somewhat  Disagree | Neither  agree nor  Disagree | Somewhat  Agree | Stronger  Agree | Don’t know |
| Cloud network | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Existing Data Center | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Hybrid network | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Transactions | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Log data (including web) | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Geospatial/locations | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Social media profile | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Social media Chat/Interactions | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Emails/documents | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Open Data | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Data from brokers | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| IOT/Sensors | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Free from TXT | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| AI | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Images | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Video | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Audio | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Customer data | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Security | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Genomic | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Meteorological | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |

1. What period of time your organization plan to have a movement to Big Data planning and production

|  |  |  |  |
| --- | --- | --- | --- |
|  | Already started the planning | Already in production | Don’t know |
| AT present time | ( ) | ( ) | ( ) |
| Within six months | ( ) | ( ) | ( ) |
| Within one year | ( ) | ( ) | ( ) |
| Within two years | ( ) | ( ) | ( ) |

1. What are the motivations of Big Data in business enterprise:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Somewhat  Disagree | Neither  agree nor  Disagree | Somewhat  Agree | Stronger  Agree | Don’t know |
| Enhance Customer experience | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Target marketing | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Process efficiency | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Cost reduction/ ROI | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Improve Risk Management | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Cost reduction/ ROI | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Developing information products | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Enhance security capabilities- Cyber Security | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Regulatory compliance | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |
| Other factors: | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |

1. Which of technologies your organization are using for existing and future?

* Enterprise Data Warehouse (EDW) ( )
* Hadoop Distribution ( )
* Cloud computing ( )

1. What technologies is your organization using or plan to use for Big Data.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2017 | 2018 | 2019 |
| Enterprise Data Warehouse | ( ) | ( ) | ( ) |
| Hadoop | ( ) | ( ) | ( ) |
| Cloud Computing | ( ) | ( ) | ( ) |
| Statistical Programming Languages | ( ) | ( ) | ( ) |
| Relational DBMS | ( ) | ( ) | ( ) |
| In-Memory DBMS | ( ) | ( ) | ( ) |
| NoSQL DBMS | ( ) | ( ) | ( ) |
| Apache Spark or Apache Flink | ( ) | ( ) | ( ) |
| Search-Based Indexes | ( ) | ( ) | ( ) |
| Complex Event or Stream Processing | ( ) | ( ) | ( ) |
| In-Memory Data Grids | ( ) | ( ) | ( ) |
| High-Performance Message Infrastructure | ( ) | ( ) | ( ) |
| Graph DBMS | ( ) | ( ) | ( ) |
| dbPaaS | ( ) | ( ) | ( ) |
| IBM Netteza/Watson | ( ) | ( ) | ( ) |
| Splunk | ( ) | ( ) | ( ) |
| Others | ( ) | ( ) | ( ) |
| Don’t know | ( ) | ( ) | ( ) |