

Why Industry Standard Analytics Solution instead of Custom BI development?



Quick facts



- As per Gartner report, 7 out of 10 BI project fails
- Pre built Industry Standard solutions are proven to be a far more successful and reliable option than custom built BI solutions
 - A well-designed pre built solutions with minor customization is a risk free option which can be deployed faster and users can start reaping benefits
- Custom built BI solution is likely to cost 3x more than an Industry Standard analytics Solution because of the following reasons
 - BI platform & ETL tools cost
 - Expertise in building enterprise level data warehouse model
- Custom BI solution is likely to take 3x more times than an Industry Standard Pre built Solution due to following reasons
 - Understanding business users needs clearly
 - Data mapping from multiple source systems
 - Development of data models to address business users requirement
 - Dashboards, Reports & cube development

Requirement gathering & deployment planning



Custom BI	Industry-Standard Pre-built solution	What would be the Impact if Risk is not mitigated?		
Major challenges during but user's requirements gathering	•	a. Incomplete and/or incorrect requirements lead to defects in the subsequent stages of software		
a. Multiple meetings with business users to under requirements leading to investment of time of smanagers	stand metrics with relevant logic & huge calculation	overrun in cost & schedule and often ends up with the project not reaching completion		
b. Incomplete understandi business users needs d lack of domain knowled vendor	ue to organization	higher cost and schedule, it is highly likely that there would be lot of change requests post go-live arising out of lack of solution capability to scale up to		
c. Inability to factor to requirements due to la domain expertise	uture of business ck of d. ETL connectors with major source systems such as Life Asia, Polisy Asia, Informix 8	would also lead to insufficient decision		
d. Lack of unified objective business impact with continuous KPI due to diff perspective multiple stakeholders	ertain minimal customization (5-			

Requirement gathering & deployment planning



Custom BI	Industry-Standard Pre-built solution	What would be the impact if Risk is not mitigated?
 Selection of technology stack ETL Tool DB for target Data Warehouse BI tool for dashboards & reports on top of DW Data Quality tool Master Data Management 	 Technology selected and attested by vendor based on their expert evaluation of fitment between business requirements and technology stack 	 Project failure during implementation due to gap between tool capability and business requirements. Even if project goes live system performance and user experience can be sub-optimal
Infrastructure sizing: Inadequate Infra sizing that does not factor for growth in business volumes and hence when transaction volumes increases performance suffers. Also Insurance business is very seasonal with periodic peaks which are not factored usually while infra sizing.	 Solution factors growth in business volumes for next 5 years. The solution is also capable of handling peak business volumes 	 System performance dips with increased instances of failure as transaction volumes grow. Ultimately system has to be retired prematurely with sunk investments without realizing significant returns from the investment. Custom BI system is also often found to be lacking in performance during peak transaction volumes
 No single vendor for hardware, software licenses & domain consulting 	Single vendor for end-to-end- solution implementation	 Reduced co-ordination overheads for client, single point of accountability Reduced license and hardware costs due to vendor partnership with product companies Cost of evaluating and hiring high-end domain consulting firms avoided

Design & development



Custom BI	Industry-Standard Pre-built solution	What is the Impact if Risk is not mitigated?
 Implementation Approach a. Waterfall model – more accurate for enterprise wide implementation as data across multiple systems need to be integrated before it can be used. Issue is that it takes 18-24 months time for system to start delivering results b. AGILE Model – Some quick results can be perceived for limited scope to individual departments or functional areas with limited data. The issue is that this approach cannot deliver consistent and standardized enterprise-wide BI application 	 a. Pre-built solution with minimal customization to be implemented in waterfall model to ensure that the changes will reflect in enterprise-wide and there would be no regression defects. b. Also cuts down waterfall model time from 18-24 months to 4-6 months 	 a. Project schedule and cost over-run to the tune of 200%-300% which is quite common with waterfall projects, with the risk of project not reaching completion. b. BI projects done in AGILE mode would typically lead to a system that is not fully compliant with business users requirements hence not acceptable to go live

Design & development



Custom BI		In	dustry-Standard Pre-built solution	W	hat would be the Impact if Risk is not mitigated?
a.	Data model expertise requires very good understanding of various Insurance source systems	а.	Pre-built data model take care of such challenges which meets more than 85% of business users requirements	a.	Errors in the data model will lead to cascading errors through out the entire BI system. It requires significant time and effort to get data modelling done in an expert manner
a.	BI systems for Insurance business would require complex source data extractors and transformation routines	a.	Pre-built extractors for major source systems available. Transformation routines are pre-built and industry standard	a.	Imperfect development of ETL scripts and routines would incur significant cost and time
a.	Lack of single vendor means that a suitable implementation partner has to be sourced which means rigorous evaluation & selection process	a.	Pre-built solution with minimal customization to be implemented	a.	Cost and schedule overheads in evaluating and selecting vendor. Even after this exercise is done there is always risk of vendor's capability

UAT and Production

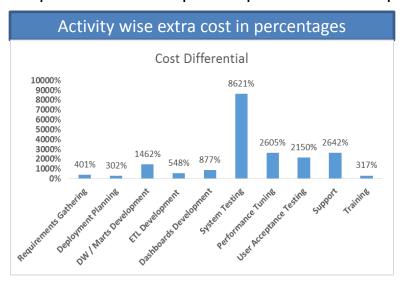


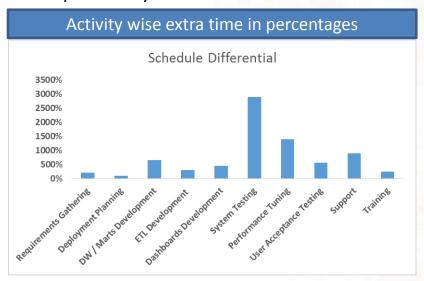
Custom BI		Industry-Standard Pre-built solution	What would be the impact if Risk is not mitigated?
a.	User Acceptance Testing takes significant time and effort primarily due to effort required in test case creation for scope covering enterprise wide BI		a. Prolonged UAT leads to overrun in cost and schedule. In acute cases, the project may be shelved if the system is in wide variance with the requirements of business users
a.	Business User Training on the BI system can be challenging and ineffective particularly due to lack of domain knowledge of vendor, who is unable to explain system functionalities and their utility from a business perspective	a. Pre-built training content delivered by domain experts from vendor's team	a. Significantly higher cost and schedule is the immediate impact. In the longer run, lack of proper training would result in sub-optimal usage and low adoption of the BI system which would ultimately lead to failure of the system

Inflated Cost and Schedule with Custom BI Solution Gray



The comparison herewith is based on study done for custom analytics for one functional area (Sales) in Insurance versus standard solution (IA+ Sales module). The findings show overall **3x EXTRA COST AND 3x EXTRA TIME if custom solution is used instead of standard solution**. Similar results are expected if the scope is expanded to enterprise-wide airport analytics.





Overall 3x Extra Cost

Overall 3x Extra Time

Note: Data Modelling needs zero incremental effort in Standard Solution and hence the percentage comparison for that is not included above

In summary, IA+ comes out as a superior alternative to a custom-built Insurance analytics solution. However, If your business needs are restricted to discrete, one-off reports or dashboards, custom building might make sense.



