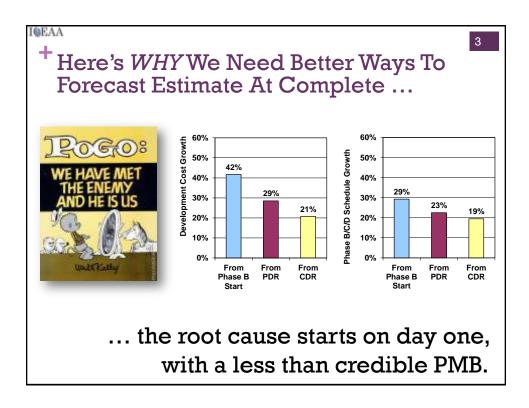
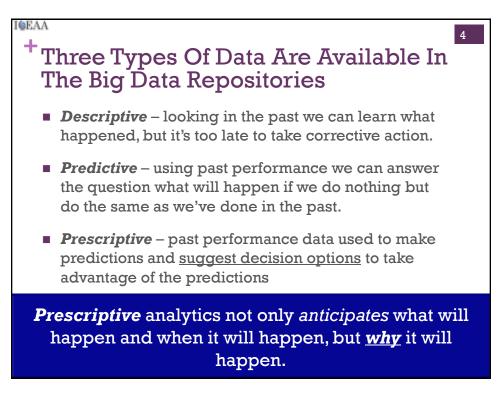
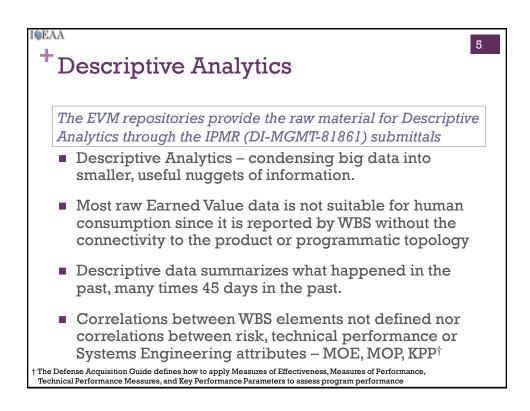
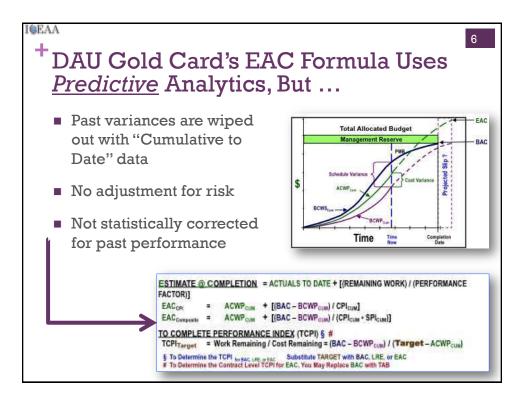


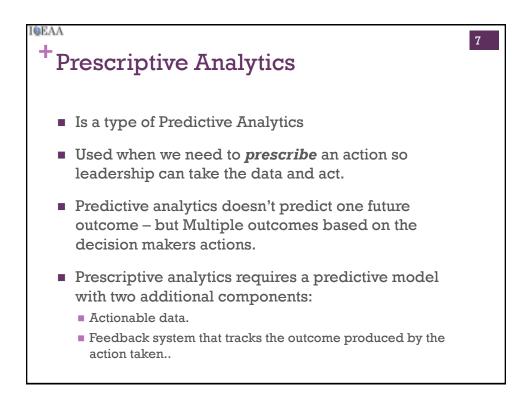
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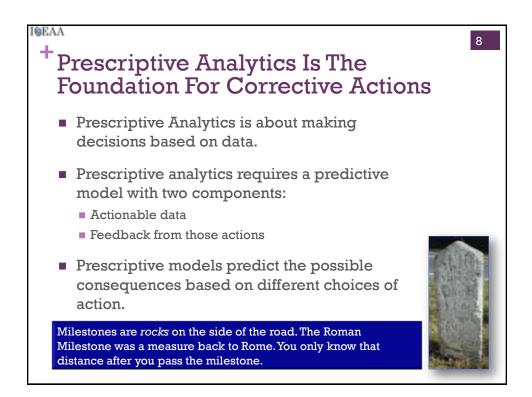


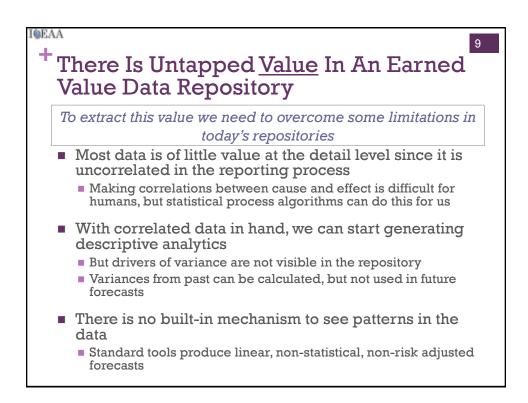


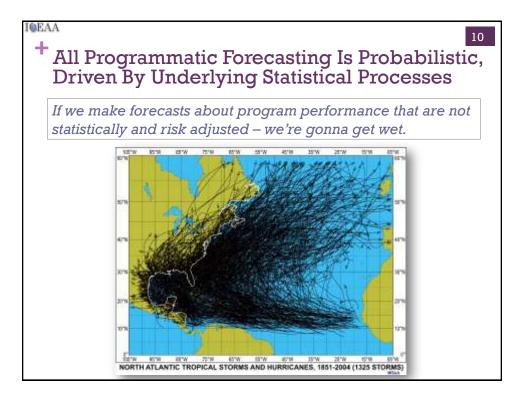


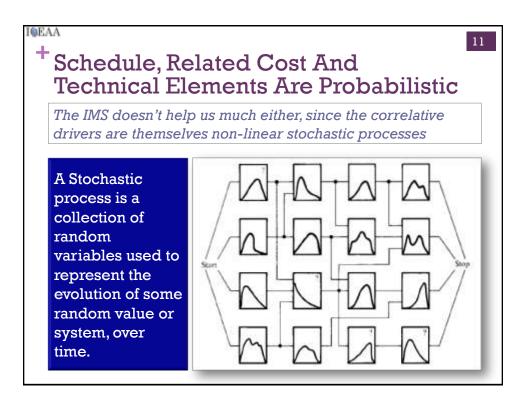


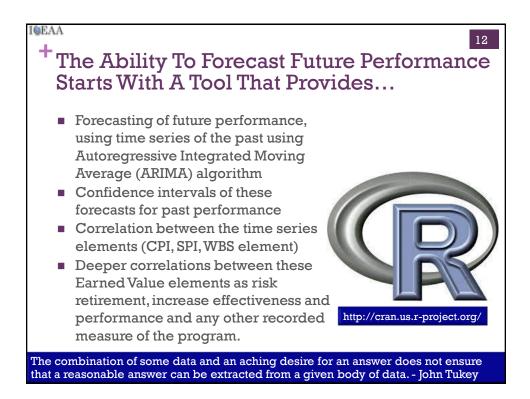


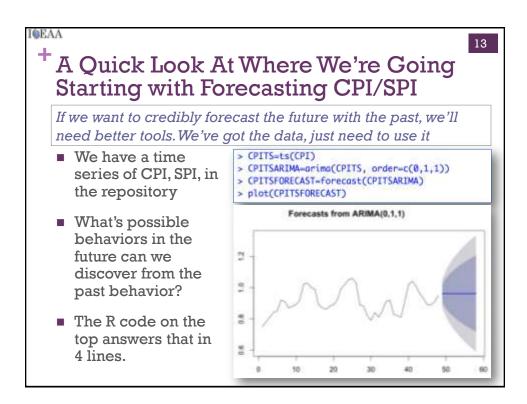






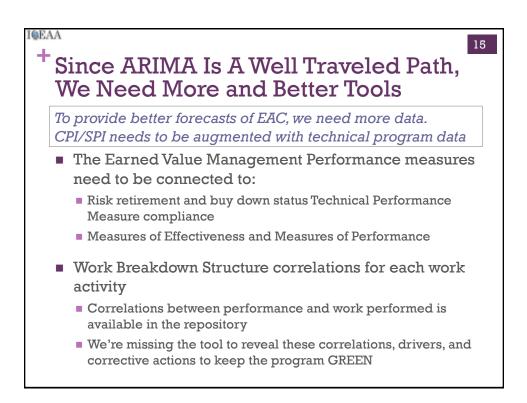


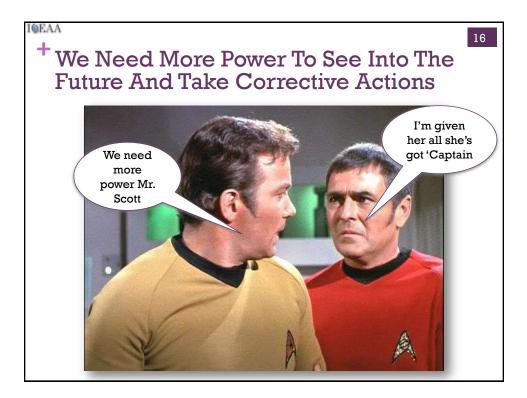


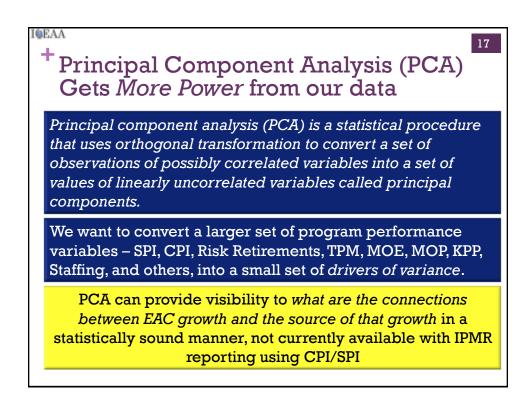


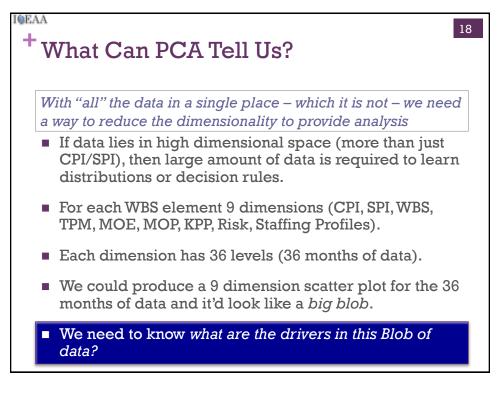


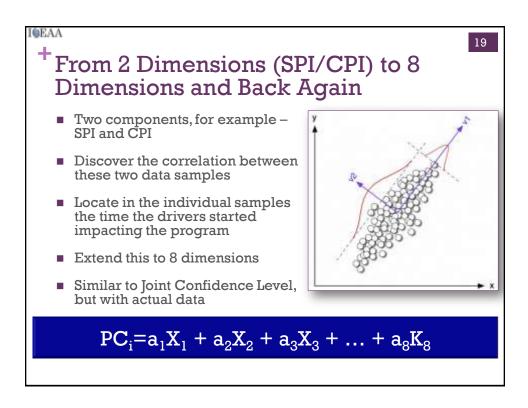
- Dollars
- Cumulative indices wipe out all the variances
- Forecasts of future performance are not statistically adjusted
- There is no correlative information drivers of variances
- None of these forecasts use the risk register to adjust their value











<ul> <li>Program Performance Dimensions</li> </ul>			
	CA data can be simple 2 dimensional – CPI/SPI or more omplex and represent other "attributes" driving EAC		
Variable	Information that mat drive Unanticipated EAC		
CPI/SPI	CPI for program, time phased by reporting period		
TPM	<ul> <li>Technical Performance Measures, with control bands as program moves left to right. These can be any measure technical compliance</li> <li>Weight</li> <li>Throughput</li> <li>Information Assurance validation</li> <li>Any of the JROC KPPs</li> </ul>		
Risk	Risk Risk retirement buy down plan Risk handling and planned reduction		
	Cost and schedule margin burn down to plan		

## ICEAA 2014 Professional Development & Training Workshop

<ul> <li>Call to Action for increased visibility to Unanticipated EAC Growth using BIG Data</li> </ul>			
0	Normalize data in the Central Repository in preparation for analysis	EV, WBS, Timeline units normalized with No missing items	
1	Apply ARIMA to normalized data to forecast CPI, SPI, and Calculated EAC	Product EAC now based on statistically sound forecast	
2	Adjust ARIMA parameters using past performance compliance	Tune ARIMA for program phase sensitivity	
3	Integrate external data with EV repository data to build correlations the EAC forecasts	Add risk register and SEMP measures to ARIMA	
5	Apply Principal Component Analysis (PCA) to identify correlated <i>drivers</i> of EAC growth	Research the Use multivariate forecasting for EAC	