

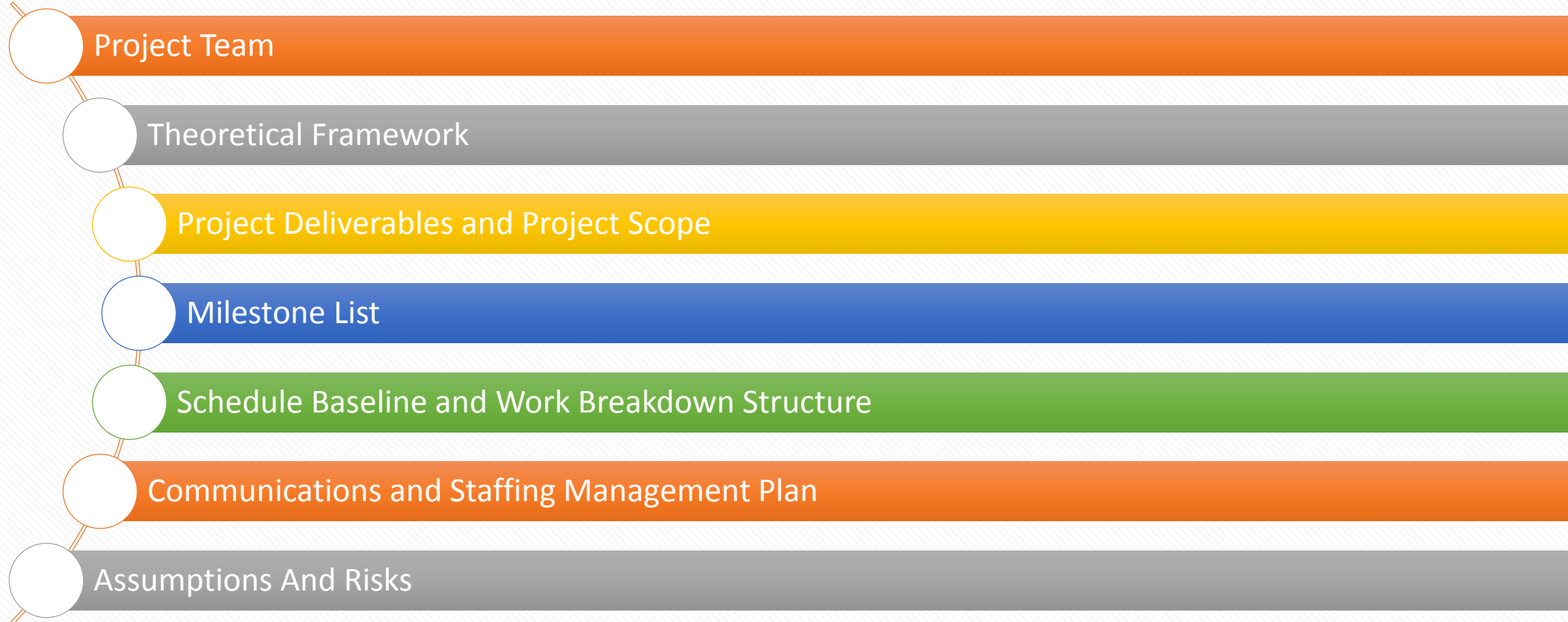


Data Analytics (Area: IT Audit Techniques)

INTOSAI Working Group on IT Audit



Agenda

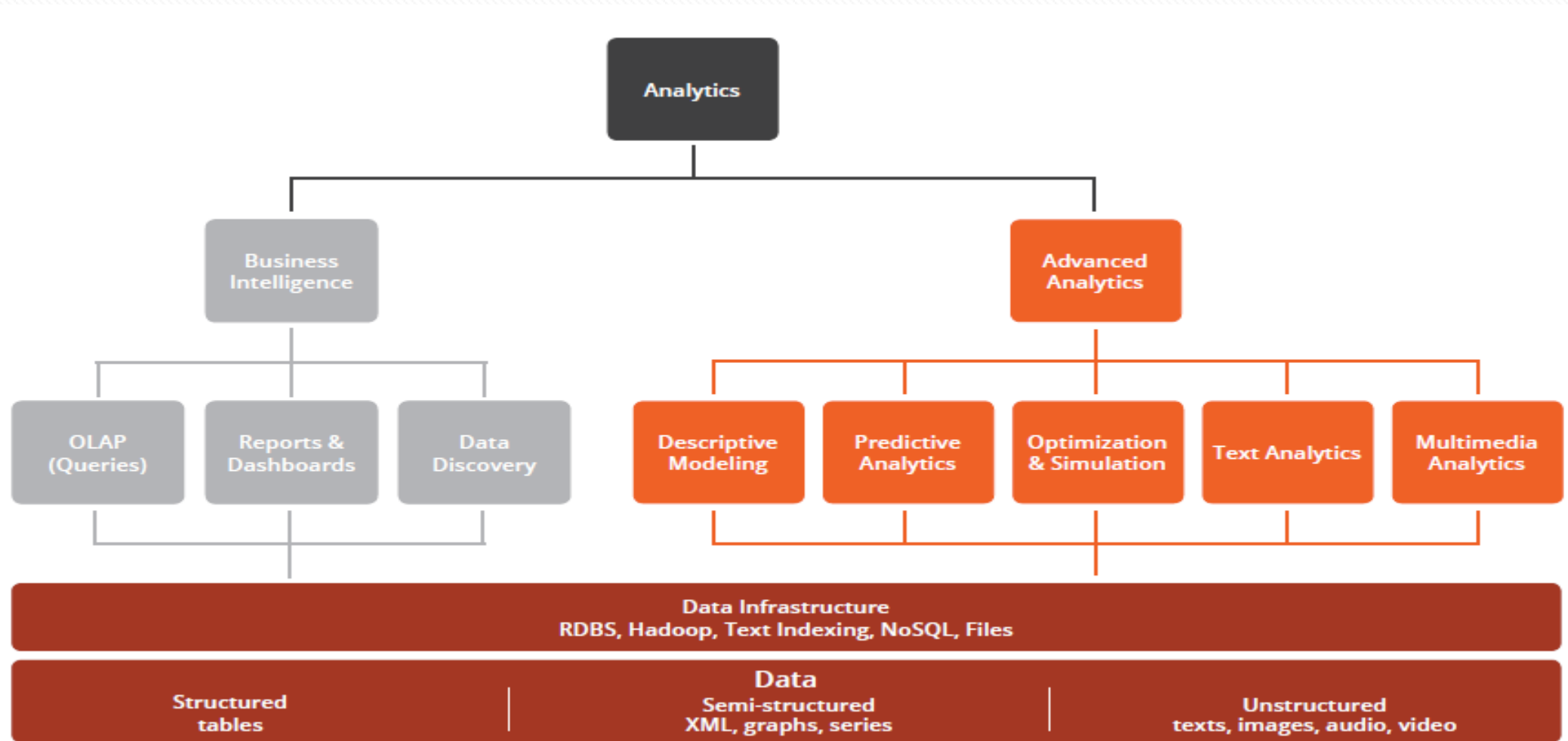




Project Team

- Leader : SAI Indonesia
- Member SAIs are: Bangladesh, Brazil, Ecuador, Georgia, India, Iran, Iraq, Japan, Malaysia, Pakistan, South Africa, and USA

Theoretical Framework





Project Deliverables and Project Scope

Project Deliverables

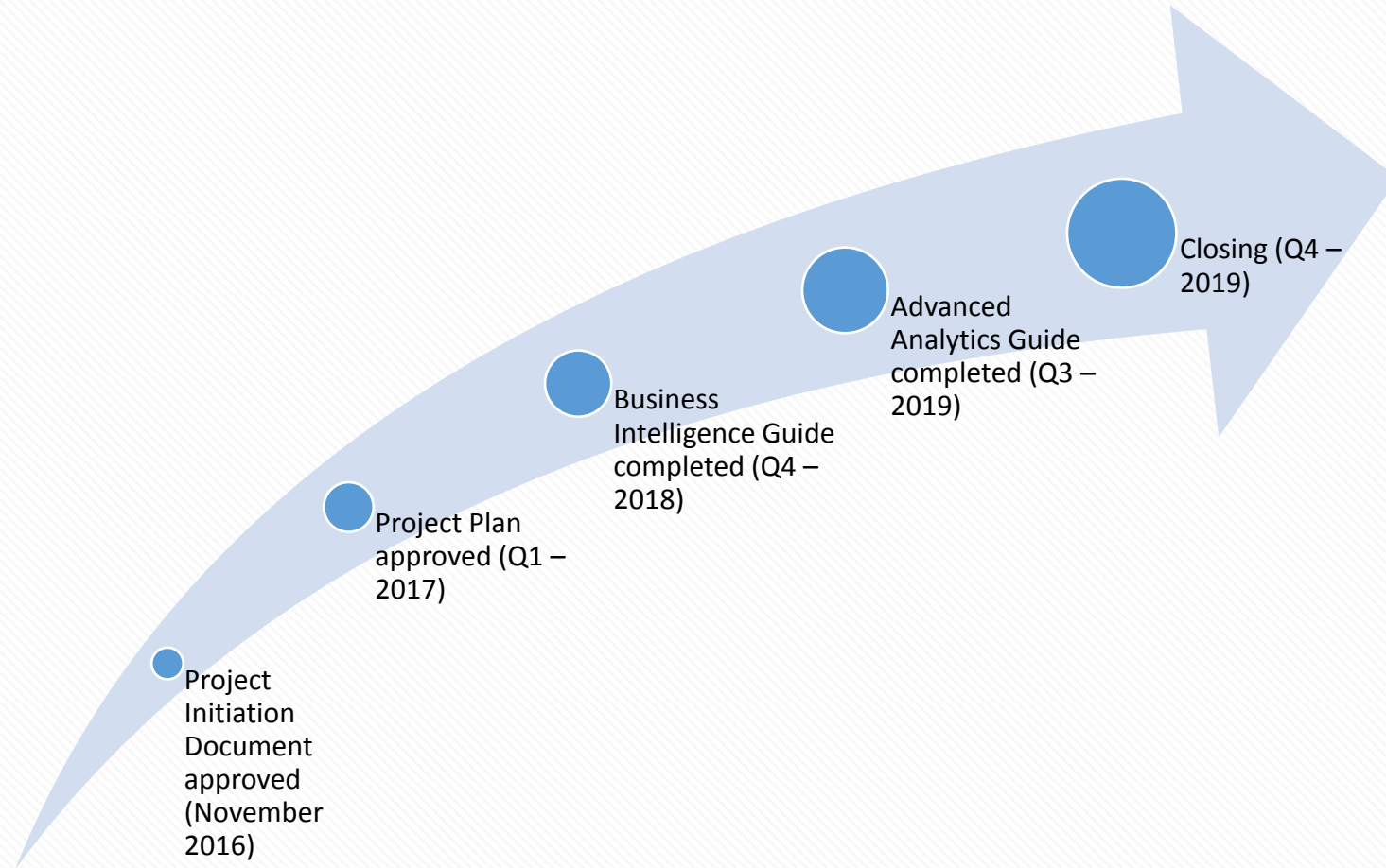
- Business Intelligence Guide
- Advanced Analytics Guide

Project Scope

- The data analytics focuses only data that are produced by SAI's audited entities.
- The project will be designed to cover specific data topics which are relevant to certain type of audit.
- The data analytics will be delivered as a standalone solution with simple development and will not require 'highly specialized skill' to operate.



Milestone List





Schedule

Processes	2016				2017				2018				2019			
	Sept	Oct	Nop	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1 Initiation																
1 Drafting																
2 Approval by WGITA Chair																
3 INCOSAI																
2 Planning																
3 Execution																
1 Business Intelligence																
1 Development																
2 Testing and QA																
3 Piloting																
4 Finalizing																
2 Advanced Analytics																
1 Development																
2 Testing and QA																
3 Piloting																
4 Finalizing																
4 Monitoring																
5 Closing																



Work Breakdown Structure (1)

Planning

- Complete data topics
- Complete identification of data sources
 - Complete problems statement
- Complete identification of applicable algorithms
- Determine Data Analytics solution platform and tools
 - Complete guiding criteria
 - Complete critical success factors



Work Breakdown Structure (2)

Business Intelligence Advanced Analytics

Development

- Complete data acquisition guide
- Complete data pre-processing guide
 - Complete analysis guide
 - Complete interpretation guide
- Complete business intelligence / advanced analytics guide

Testing and QA

- Determine data tests for business intelligence / advanced analytics
 - Acquire data test
- Perform walkthrough of business intelligence / advanced analytics guide
 - Complete test result report

Piloting

- Determine pilot subject (location and data topic)
 - Determine team for pilot projects
 - Assign reviewer for pilot projects
- Complete lessons learned from pilot
 - Complete pilot report

Finalizing



Communications Management Plan

- INTOSAI's web portal
- Video conferences
- eMail, fax, mailing list, and other possible communication type



Staffing Management Plan

The general responsibilities of the member of the project are:

- Completing tasks accordingly and timely manner
- Reporting regularly by an agreed schedule
- Communicating to all members if any issues are raised
- Delivering result on time and complete



Assumptions And Risks

- Each group member is assumed to have already implemented data analytic tool
- Notify to the leader about the changes to ensure the continuous understanding between members
- A periodically updated risk assessment to determine whether other risks have surfaced that need to be managed



Thank You