**Ambition:** To Provide Architectural Excellence to Anglo

**Trusted Advisor of Choice:**
Provide Technology Leadership to Global IM through proven delivery track record, mature architectural frameworks, effective technology scanning and agile Innovation

**Partner of Choice:**
Enable business processes to respond to changes in the operating environment in an agile manner, by integrating IM delivery to meet business needs effectively and efficiently.

**Excellence:**
To be recognized as a critical value adding discipline in Anglo by our clients, business stakeholders and industry peers.

**Strategic Drivers:**

**One Anglo:**
- Enable One Anglo Vision
- Integrated Financial, HR and Procurement Shared Services
- Enable Asset Optimization.
- Enable an Integrated Operating Environment

**Global IM:**
- Integrated ERP Vision
- Single Global Network
- Common IM processes
- Enablement of IM shared Services
- Knowledge Management
- Global Information Delivery

**Business Unit IM:**
- Industrial IT Governance
- Mine Technical Systems coordination
- Process and Mining Systems information integration
- BU Strategic Project Enablement

**IM Value Add:**
- Reduce Costs through compliance and re-use
- Increase IM Value add to business through effective end to end Business Process Enablement

**Strategic Approach – 4 Phases:**

**Establishment:**
- Establish Governance Framework
- Solution Architecture Focus
- Provide GIS Transformation Support
- Reduce Applications Complexity

**Embedment:**
- Focus on Reference Architecture Development
- Provide Solution Architecture Support to Strategic Projects
- Establish BP Modeling CoE

**Enablement:**
- Design for Agility to improve time to deliver solutions
- Enable Group Wide Standardization
- Innovate to reduce service costs

**Leadership:**
- Innovate to improve business value
- Implement Business Process Management
- Use Standards to leverage scale

**Strategic Initiatives:**

- Compliance Management
- Global Program Templates
- Reference Architectures
- Integration Strategy
- Master Data Management
- New Generation Desktop
- Virtualized Infrastructure
- Application Platform as a Service
- Innovation funnel
- Business Process Management Services
EA STRATEGIC JOURNEY

**Leadership**
- Provide Technology Leadership to Business and IM through Proven Track Record, Mature Architectural Frameworks, technology scanning and Innovation

**Enablement**
- Leverage Reference Architecture to Enable Group Wide Standardization and Shared Services Implementation
- Deliver Templatized Architectures
- Enable Business Process Management through integrated planning and delivery approach

**Embedment**
- Focus on Reference Architecture
- Provide Solution Architecture Support to Strategic Projects
- Establish “Lean IT” Architecture Model
- Establish BPM Service

**Establishment**
- Establish Governance Framework
- Solution Architecture Focus
- Complexity Reduction
- GIS Support

**Governance Through Compliance Enforcement**
- Improved Architectural Maturity through building of Credibility, Skills Development and Collaborative Partnerships

**Business Value**
- Time
  - 2009/10
  - 2011/12
  - 2012/13
  - 2014
OVERVIEW OF ANGLO AMERICAN EA FRAMEWORK

Enterprise Architecture

- Business Process/Strategy
  - Drives
  - Define
  - Determine
  - Require

- Information Requirements
  - Achieve
  - Deliver
  - Enable
  - Facilitate

- Data Models
- Application Services
- Technological Platforms

Governance

Performance Management

Resource Management
EA CAPABILITY MATURITY MODEL
IMPLEMENTATION APPROACH

**EA Strategy**

**Shared Values:**
- Ambition: To Provide Architectural Excellence to Anglo
- Trusted Advisor of Choice:
- Partner of Choice: Excellence:
- To be recognized as a critical value adding discipline in Anglo by our clients, business stakeholder and industry peers.

**Strategic Drivers:**
- Global IM:
- Business Unit IM:
- IM Value Add:
  - Enable One Anglo Vision
  - Integrated Financial, HR and Procurement Shared Services
  - Ensure effective collaboration between Business units.
  - Enable an Integrated Operating Environment
  - Industrial IT Governance
  - Mine Technical Systems coordination
  - Process and Mining Systems information integration
  - BU Strategic Project Enablement
- Reduce Costs through compliance and re-use
- Increase IM Value add to business through effective end to end Business Process Enablement
- Leadership:
  - Establish Governance Framework
  - Solution Architecture Focus
  - Provide GIS Transformation
  - Focus on Reference Architecture Development
  - Provide Solution Architecture
  - Design for Agility to improve time to deliver solutions
  - Enable Group Wide Support
  - Reduce Applications Complexity
  - Establish BP Modeling CoE
  - Standardization
  - Innovate to reduce service costs
  - Management
  - Use Standards to leverage scale

**Gap Analysis**

**Investment Plans**

**Option 1: Thermal Coal Timelines (Site Procurement)**

<table>
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<tr>
<th>Description</th>
<th>Dur.</th>
<th>Cost (R)</th>
<th>Cost ($)</th>
</tr>
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<td>Thermal Coal Spot Sourcing</td>
<td>24 w</td>
<td>9 318 724</td>
<td>1 285 479</td>
</tr>
<tr>
<td>Thermal Coal e-Catalogues</td>
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<td>380 441</td>
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<td>16 w</td>
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<tr>
<td>KIO e-Catalogues</td>
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<tr>
<td>Anglo Platinum Spot Sourcing</td>
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<td>3 539 200</td>
<td>448 166</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>42 w</td>
<td><strong>22 638 713</strong></td>
<td><strong>3 122 581</strong></td>
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</tbody>
</table>
STRATEGIC INITIATIVES IN PROGRESS

Business Process Modeling Service

Compliance Monitoring

Group Architecture & Standards Compliance Matrix

Comprehensive Master Data Management Solution

Integration Data Model Development

Business Function Business Process Service / Application

Technical Standard

Group Std. Status

Budgeting and Forecasting

HFM

G

Finance

Financial Accounting

SAP/Ellipse

G

Finance

Accounts Payable

SAP/Ellipse

G

Finance

Asset Accounting

SAP/Ellipse

G

Finance

Billing

Various

S

Finance

Cash Management

R

S

Finance

Cost Accounting

SAP/Ellipse

G

Finance

Electronic Funds Transfer

Various

S

Finance

Financial Consolidation

Hyperion/SAP

G

Information Delivery

Hyperion

A

Finance

Inventory Management

SAP/Ellipse

G

Finance

Legal Compliance Management

B

Management Accounting

B

Finance

Treasury Management

G

Human Resources

HR Administration

G

Human Resources

Talent Management

SAP Fusion/Acumen/Anglo Track

A

R

Human Resources

Training Management

R

Human Resources

Job Profiling & Evaluation

OrgPlus, etc

B

Human Resources

Performance Management

SAP/Ellipse

G

Human Resources

Property Management

Human Resources

Recruitment Management

PageUp

G

Human Resources

Share Scheme Administration

Human Resources

Time and Attendance

Various

S

Supply Chain

Non Capital Procurement

SAP/Ellipse

G

Supply Chain

Strategic Sourcing

Emptoris

G

Supply Chain

e-Commerce

Quadrem

G

Supply Chain

Capital Procurement

Various

R

Supply Chain

Contracts Management

Emptoris

A

Supply Chain

Spend Analytics

Emptoris

A

R

Group Standards Key:

Business Unit Compliance Key:

No Application Exists / Not Applicable

Unknown

Fully compliant with Group Standard

Partially Compliant with Group Standard

Various

Group Standard in Development

Anglo Ferrous&Industries

Anglo Platinum Exploration ATD/ARL Corporate

Anglo Base Metals

Metals

KIO

AFB

Metals

EMEA

APAC

LATAM

N AMERICA

Eastern Limb

Northern Limb

Western Limb

Shared Services

Finance

Human Resources

Supply Chain
AA GLOBAL SAP IMPLEMENTATION BPM APPROACH

ARIS for SAP NetWeaver

SAP Solution Manager

SAP NetWeaver

Process Architecture Model

Process Configuration Model

Process Execution Model

Component View

Integration Scenario

Integration Process

Workflows

Non-SAP

SAP

SAP ERP Transaction

SAP Solution Manager

powered by SAP NetWeaver
INTEGRATION

All the SAP Landscape and ARIS easily integrated thru Solution Manager

SolMan

ARIS

DEV

ARIS Business Process Model opened thru Solution Manager

SAP Development transaction accessed using Solution Manager
Use the SAP SolMan content to model ARIS:

- SAP Scenarios
- SAP Process
- SAP Step Process
- Transactions
- Documentation
CONTENT EXCHANGED

The following is synchronised between Solution Manager and ARIS:
- Functional Process Group (PG) Hierarchy Nodes of Business Process Procedures (BPP) and Business Process Steps (BPS)
- Logical Components of SAP, Non-SAP, Manual attributes of BPS
- SAP Transaction Codes
- Project Documentation, such as BPP & BPS
- End User Roles assigned to the BPS

Currently the Following Attributes from Solution Manager are not yet synchronised with ARIS due to the current version of the Middleware Adapter:
- Global & Local Attributes
- Customer Attributes
THANK YOU