

Connecting Subsurface, Drilling Expertise with Digital Technology Conference 2016



Tracking exploration opportunities. A case study.

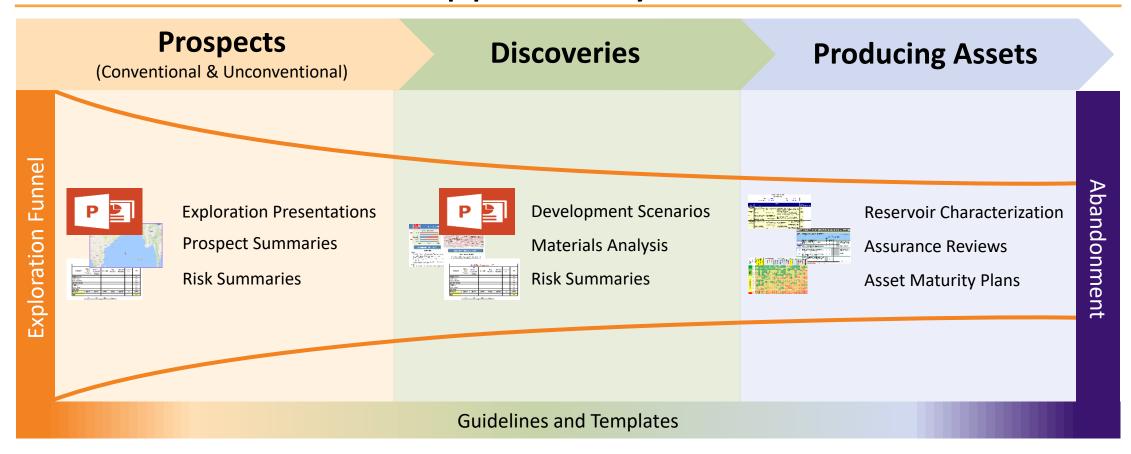
Glenn Mansfield, Director, Flare Solutions Limited

4th October 2016, Kuala Lumpur, Malaysia

Introduction

- Case study:
 - Tracking exploration opportunities
- The client
 - A multinational oil company, involved in conventional and unconventional assets, from exploration through development and operations.
- The challenge
 - Client has a well defined documented approach to assessing opportunities, including exploration opportunities, development and production
 - The issue was to help users to connect/adhere to the existing paper-based business process
- This case study looks at the evolution of the pilot project

Problem definition: Opportunity Assurance



Issues with:

Security

Sharing

Searching

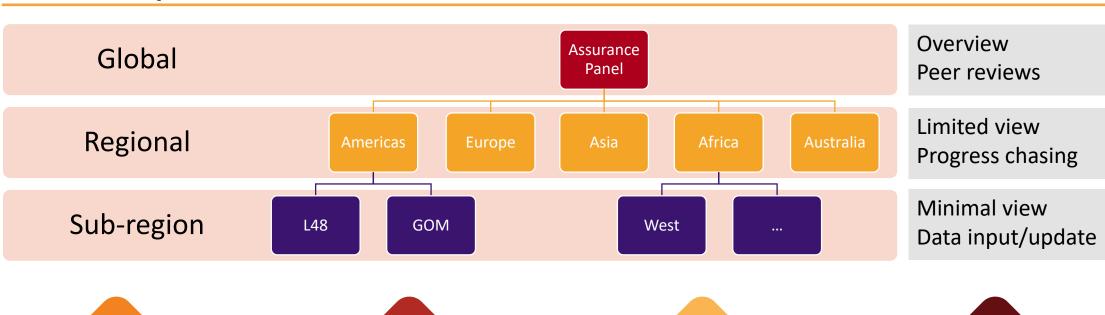
Reporting

Compliance

Learning



The Scope





Flexible Security



Publish: Capture & Tagging, Data Extraction



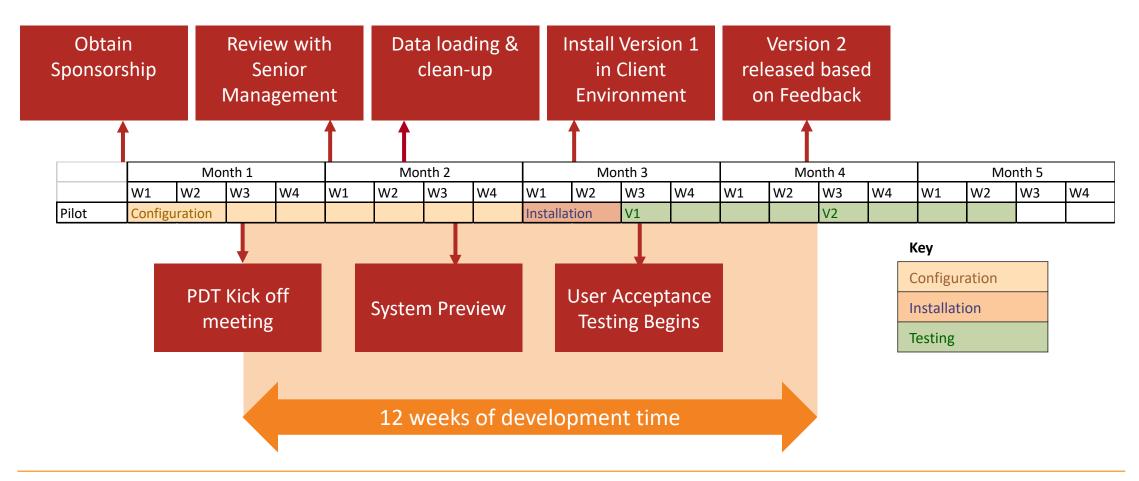
Search: Map, Documents & Data



Visualise: Reports,
Metrics &
Dashboards



Client specified a short delivery time frame



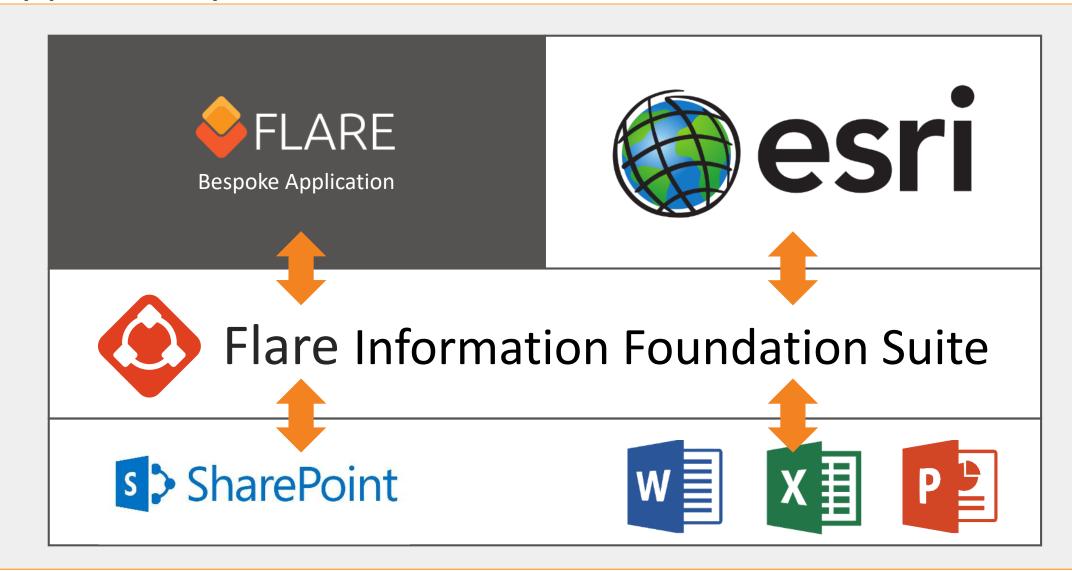


User Acceptance Testing: Success Criteria

• Single sign on Security • Handles all predefined security requirements Minimal training required, easy navigation Ease of use Intuitive controls, Drag and Drop publishing Understand current state of all opportunities **Project Tracking** Review legacy decisions Easy to find documents I need Sophisticated search Relevant results • Generate pre-defined report Reporting Export to Excel as required • Appropriate functionality per role Flexibility • Expandable if required

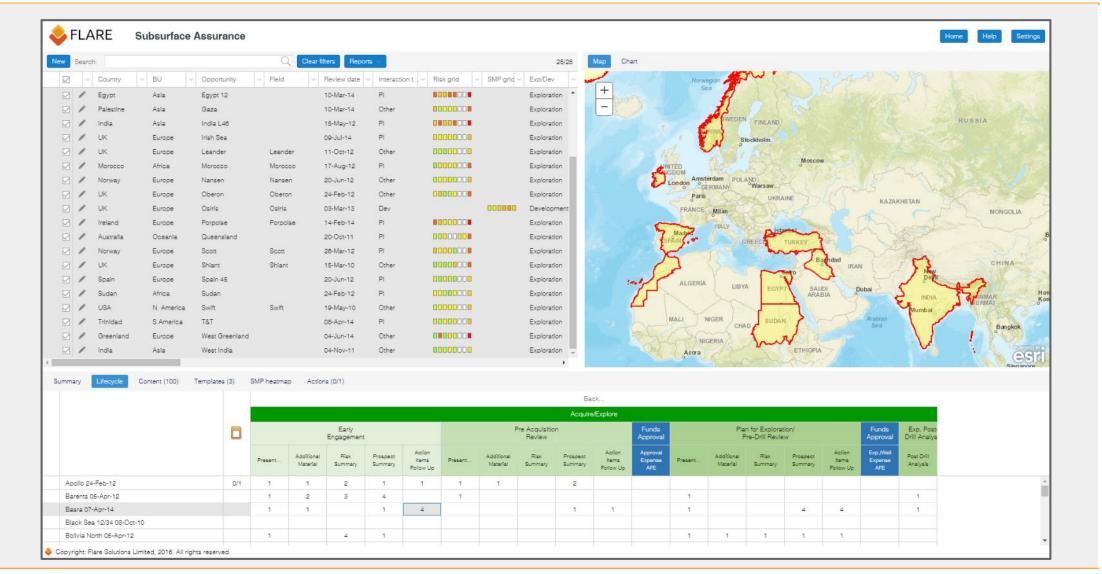


Opportunity Assurance - Overall architecture



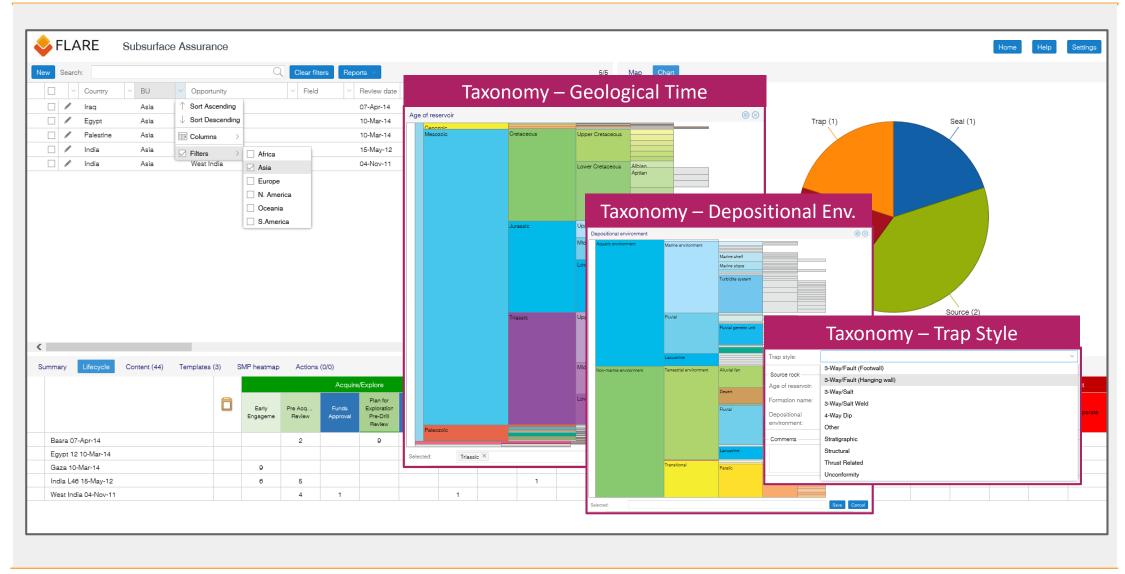


Opportunity Assurance User Interface (1)



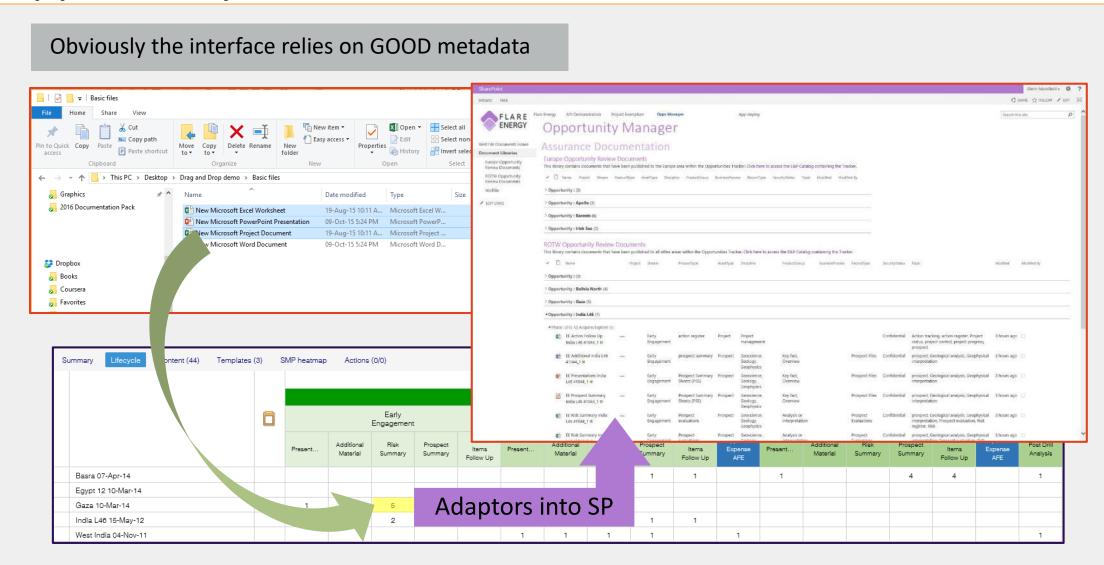


Opportunity Assurance User Interface (2)





Opportunity Assurance Documents in SharePoint





Project results

- Able to assess opportunities faster, more consistently and review the history
 - **Security**: Logging in recognised users and filtered opportunities appropriately
 - **Publish:** Easy to tag and route content, whilst adhering to the business process and the naming standards
 - Search: Supported by taxonomy, able to compare similar opportunities, search cross region/country, compare and rank risk.
 - Visualise: Able to more rigorously understand the status of all of their opportunities.
 - Clear audit trails and the ability to look back on decisions and supporting documentation
- UAT results in a high level success rating
 - Easy to use, very little training required
 - Delivered a lot of functionality within the short timeframe
- During UAT users identified and suggested several other applications and problems that could be addressed using a similar approach



Lessons Learned (Client perspective)

Senior management support, clear project roles and engaged users

Critical to have a close partnership between the Business, IT and the vendor building the solution

Trust in the vendors that providing the solutions

Project managed by IT, business don't have time or appetite to closely manage the project process

Manage the scope, the business will try to grow it

Mock-ups really help everyone picture the solution

Acceptance testing best done by the business users and managers



Future developments

Now, with the right foundations in place it's feasible to:

- Improve integration with external information sources, e.g. IHS.
- Increase integration with Technical Data, e.g. Petrel interpretations, Reservoir simulations.

- Leverage Machine Learning, Content Analytics and Data Analytics
 - (Parameterised Opportunities)



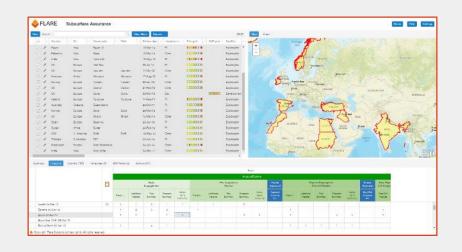
We combine **Taxonomies** and **Master Data** (what we already know)...

... with automated **Content Analytics** and **Machine Learning** (*what we can discover*)... ... to leverage your information assets



Summary

A lot can be achieved in a short time frame if you:









Build on a solid foundation

Leverage standards

Connect!





Thanks for listening

Glenn Mansfield
Director

g.mansfield@flare-solutions.com

Flare Solutions Limited

Hollybank, Bovingdon Green, Marlow Buckinghamshire, England, SL7 2JH

Europe:

Tel: +44 1628 482 750

Fax: +44 8704 602 543

North America:

Tel: +1 403 932 4597

Fax: +1 403 932 6156

Email:

enquiries@flare-solutions.com