X PRB

Agile in the Portfolio Mix The End of Clarity?

Graham Pink, Karl Forbes, Robert Garbett

Agenda

Introduction

Solving late projects

Case Study 1. Governance, what tools do you use

Agile in the Mix

Application in other sectors

Case Study 2: ISO Projects for Drones

Conclusion

OFBITIL Business Intelligence



Project Orb Delivering Successful Projects



Agile Orb Harmonising the Power of Agile



Resource Orb Making the most of your Teams



Quality Orb Raising Company Excellence



Risk Orb Managing the Future



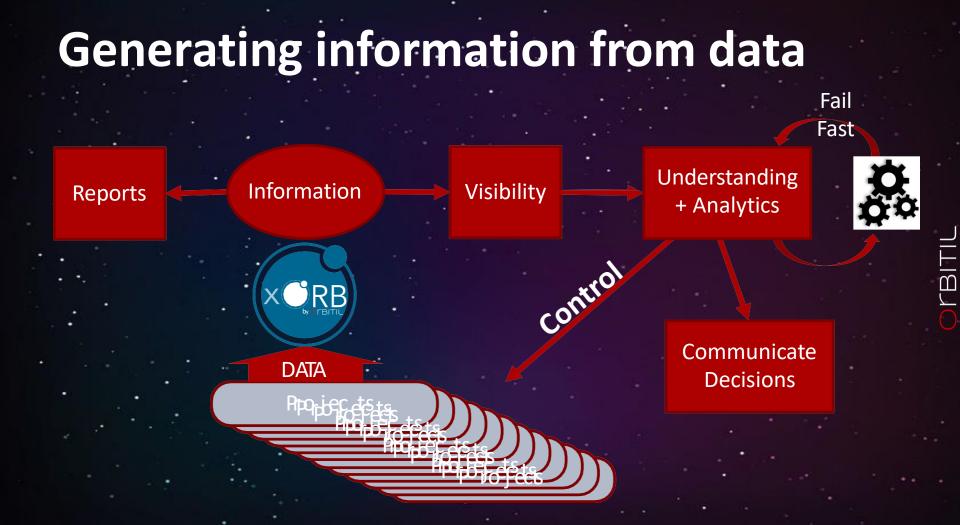


Gov Orb Productivity & Impact

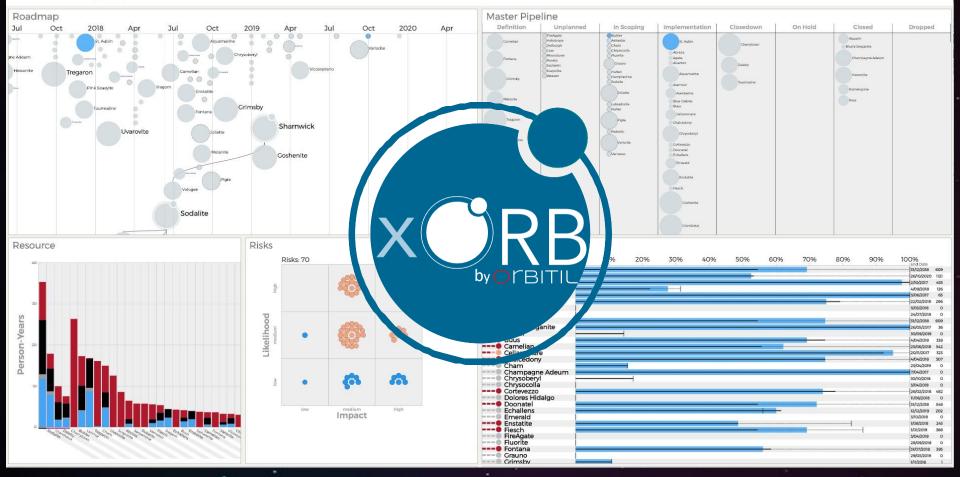
Orbitil

Problem we address: - projects being late

- Too many projects
- Wrong projects being backed:
 - by the person who SHOUTS LOUDEST
 - not the project with the biggest BANG
- Problems: make the situation worse, absorbing contingency
- Reporting: time consuming stitching diverse systems, error prone overhead
- Result:
- Just going through the motions, demoralised team, quality suffers
- Overspend, overruns, lost opportunities
- Business impact reduced



■ OTBITIL Dashboard ● つ = T + @



Case Study 1

Governance – what tool do you use?

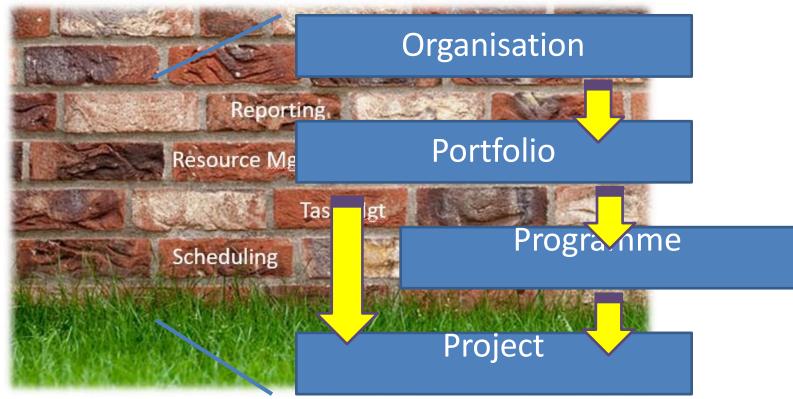


Karl Forbes R&D Projects Director Inca Digital Printers

PM building blocks



PM building blocks – complexity mapping







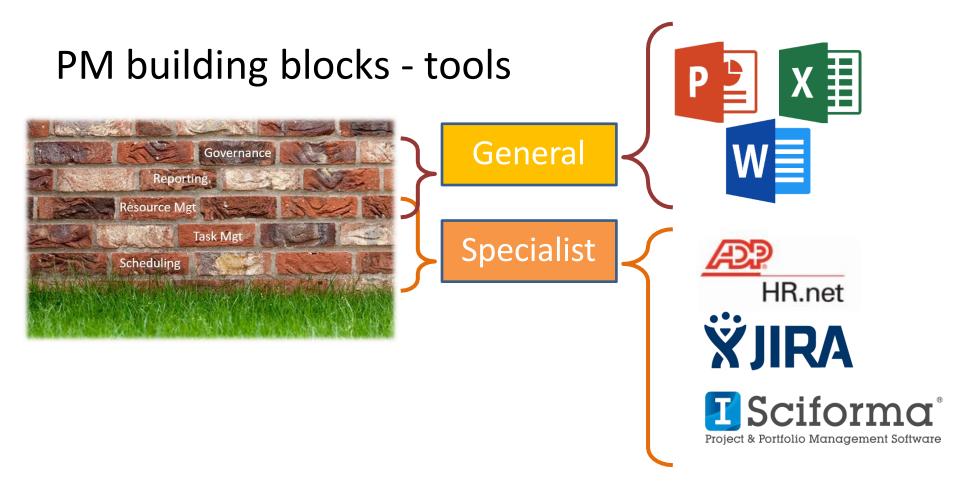
a Hytera company

~€200M revenue 150 R&D personnel Portfolio of 15 NPDs SW, HW, Mech





The PMO Conference



Project Reporting – let's get useful

- Weekly short term, task focussed. Highly specific. Simple.
- Phase Gates very tailored, data plus opinion.
 Discussions & subjective.
- Monthly Very predictable format contract based. Very data rich. Used across all our projects every month – worth investing in to get right.
 - Schedule
 - Costs
 - Issues
 - Risks



Monthly reporting - The Status Quo

Updated list of live Projects + Updated schedules **Updated Milestones** Actual progress + Latest cost forecast Cost actuals (nightmare) Technical Status (if possible) + Risk status (if possible)



Monthly reporting - The Status Quo

- Inconsistencies
- Errors
- Missing info (but not presented so difficult to spot)
- Factual or opinion?
- Time consuming to compile
- 30 minute dive-in vs. 30 second snapshot
- "Can you please include...."
- "Can you please remove..."

Insightful???

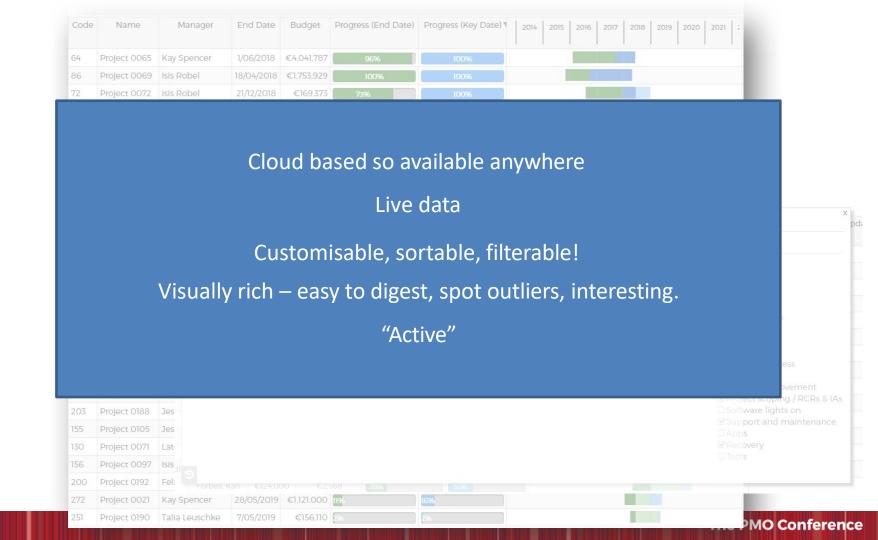


Project Governance - Toolset

- Which projects are approved?
- Who is managing each one?
- Where are they in the lifecycle?
- What is the budget situation at a Portfolio level?

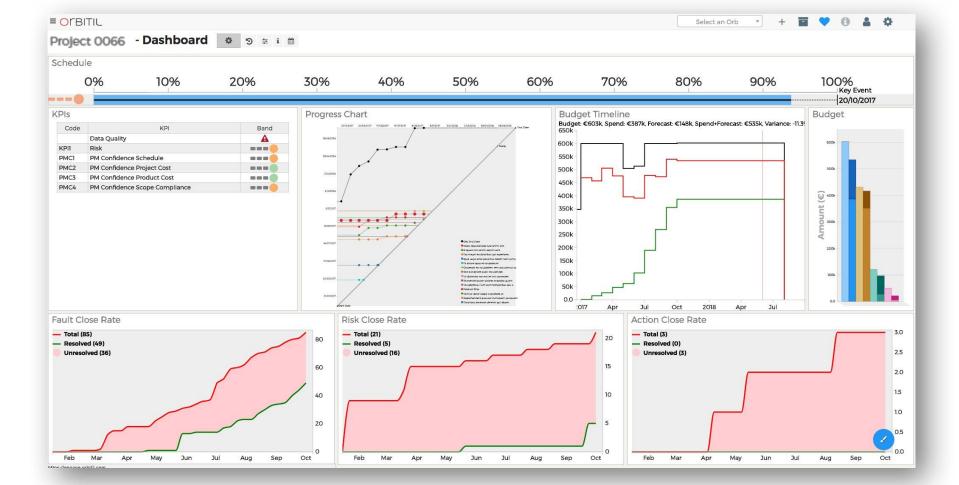


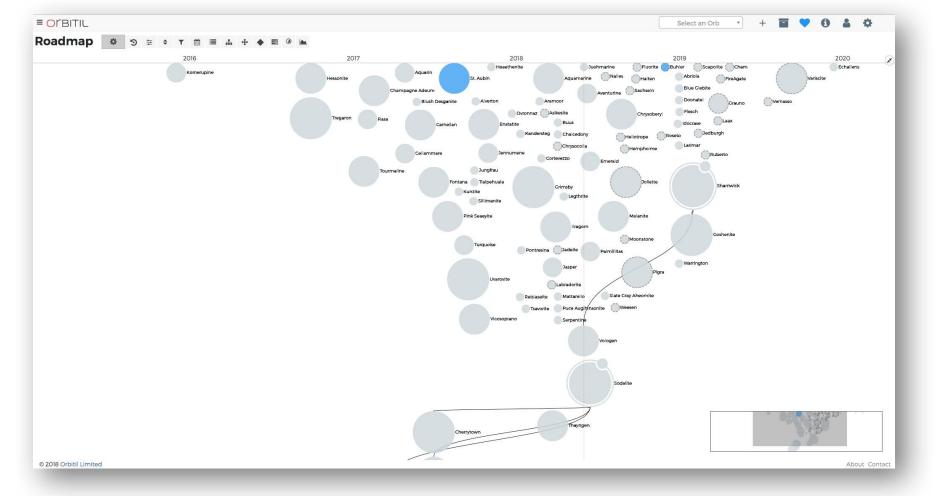
- Minimal disruption to our existing tools or practices
- Low overhead
- Customisable
- Levels
- Insightful!



Code	Name	Manager	End Date	Budget	Progress (End Date)	Progress (Key Date) 1	2014	2015	2016	2017	2018	2019	2020	2021
64	Project 0065	Kay Spencer	1/06/2018	€4,041,787	96%	100%								
86	Project 0069	Isis Robel	18/04/2018	€1,753,929	100%	100%								
72	Project 0072	Isis Robel	21/12/2018	€169,373	73%	100%								
259	Project 0005	Fronia White	5/04/2018	€114,300	100%	100%								
68	Project 0044	Isis Robel	31/08/2018	€2,751,000	83%	100%								
84	Project 0068	Isis Dobol	21/12/2018	£220.000	30%	100%								
119	Project 0066	Kay Spencer	4/06/2018	€603,000	89%	100%								
55	Pro 61	Brion Bins	2/08/2018	€102,967	90%	100%								
57	Pro 2	Latoria Nader	11/06/2018	€230,523	94%	100%								
177	Pro	Jessie Lehner	12/07/2018	€175,274	85%	85%								
		Lehner	9/08/2018	€89,300	70%	85%								
120		-	31/05/2018	€725,272	84%	84%								
23		ilpert	31/01/2019	€1,366,436	83%	83%								
129	Pr	Haley	17/07/2018	€328,000	81%	8196								
204	Proj	hmidt	30/01/2019	€1,533,804	49%	74%								
233	Project 0070	Zaiden Schinner	4/12/2018	€67,270	51%	72%								
151	Project 0059	Jessie Lehner	1/11/2018	€186,250	57%	69%								
239	Project 0012	Kay Spencer	12/02/2019	€124,000	42%	66%								
257	Project 0003	Isis Robel	1/06/2018	€251,370	59%	60%								
199	Project 0114	Kay Spencer	24/01/2019	€84,500	40%	53%								
203	Project 0188	Jessie Lehner	31/12/2018	€91,179	32%	52%								
155	Project 0105	Jessie Lehner	12/04/2022	€424,000	17%	50%								
130	Project 0071	Latoria Nader	30/04/2019	€416,000	39%	4196								
156	Project 0097	Isis Robel	28/03/2020	€2,415,789	31%	32%								
200	Project 0192	Felicity Haley	30/11/2018	€101,473	18%	31%								
272	Project 0021	Kay Spencer	28/05/2019	€1,121,000	1196	16%								
251	Project 0190	Talia Leuschke	7/05/2019	€156,110	296	2%								

MO Conference





The PMO Conference

So why?

- Reporting
 - Live data "no effort" reporting
 - Tailored yet consistent
 - No missing fields!
 - Helicopter vs. Deep Dive



Governance

- See where projects are in the process and what they plan next
- Allows for easy Governance reviewing
- Keeping the Projects to process easier to spot the rogues
- Early warning signs "incoming". Phase Reviews will be too late.

Karl's two penneth

✓ Get an online tool that connects to your <u>existing</u> sources.

Allow your team to <u>own the data</u> – it's more likely to be correct and more efficient to enter.

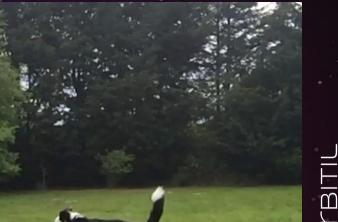
✓ Define a reporting template but accept that others will have <u>different needs</u>.

✓ Make it interesting!! <u>Dashboards</u>, colours, pictures. Minimise words.

✓ <u>Review</u> regularly and adapt often.

Life in an Agile World





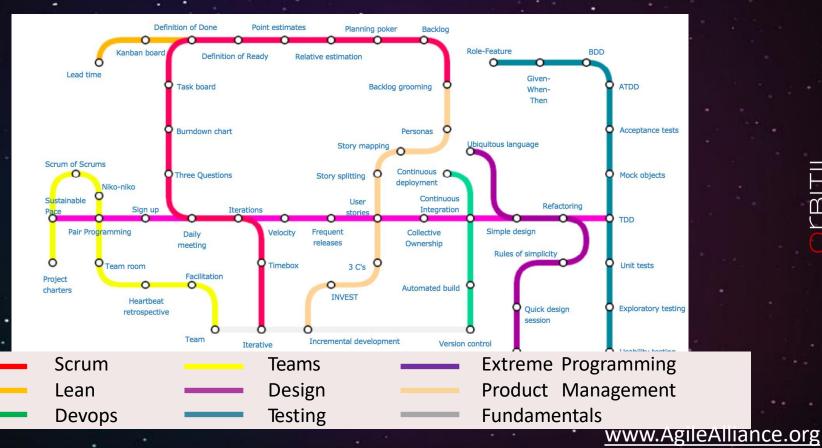
Agile Manifesto

Individuals and interactions over processes and tools Working software over comprehensive documentation **Customer collaboration** over contract negotiation **Responding to change** over following a plan

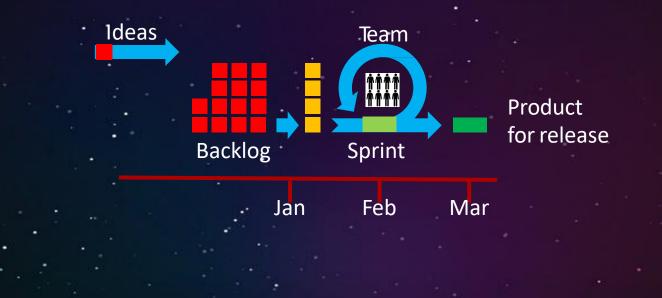
Agile Manifesto 2001



Agile umbrella: tribes & areas



Benefits of Agile development



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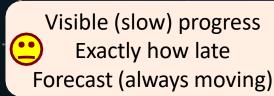
Life in an Agile World

Team Waterfall



Detailed Plans Resource Profile Cost Profile

Projects take longer Cost more Clash with other projects



Fixed Release schedule Fixed Team Prioritised list of work

Team Agile

Releases never late Fixed costs Allocated team



Easy to add features Feature timing unclear Project end unclear

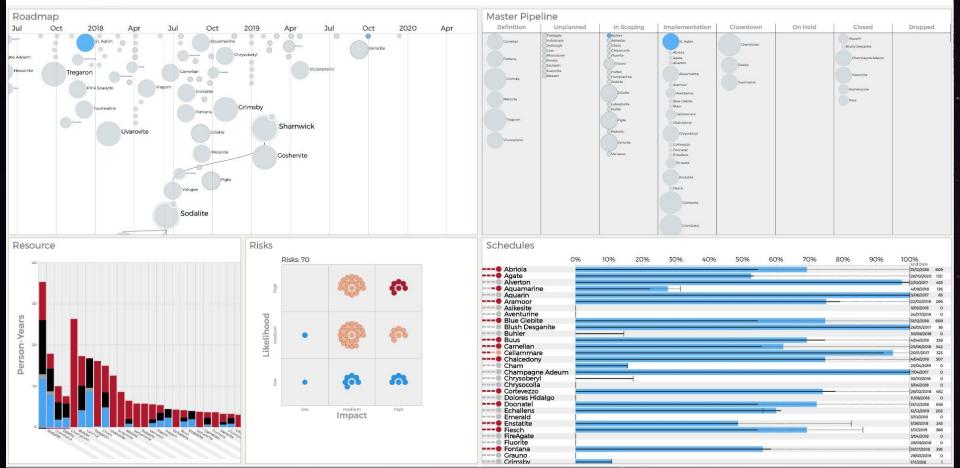
Managing in an Agile World

Difficult Questions?

- How are we doing?
- How late are we?
- How does this affect other projects?
- When can we launch the product?
- Can I see the plan?
 - Would it help to add more engineers, and which team gets them?

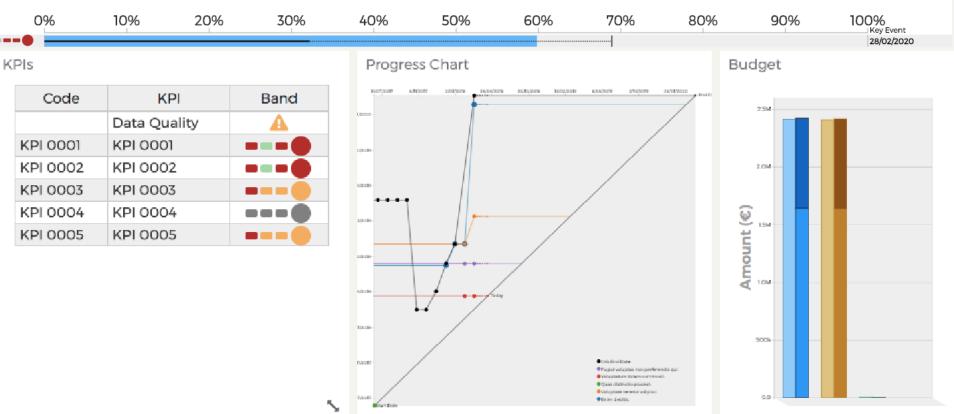
We need to understand Agile projects to manage them

■ OTBITIL Dashboard * 5 ± T +

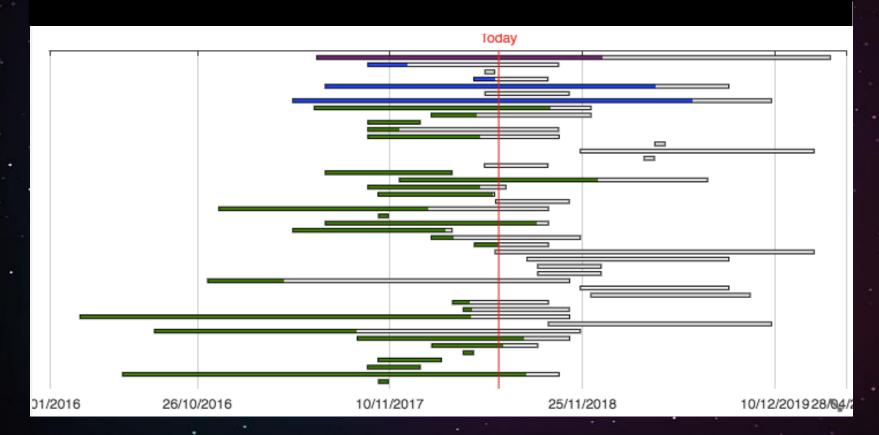


Project Basics

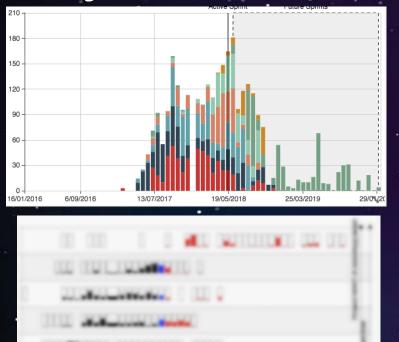
Schedule

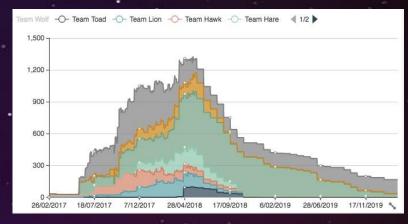


Project Plan



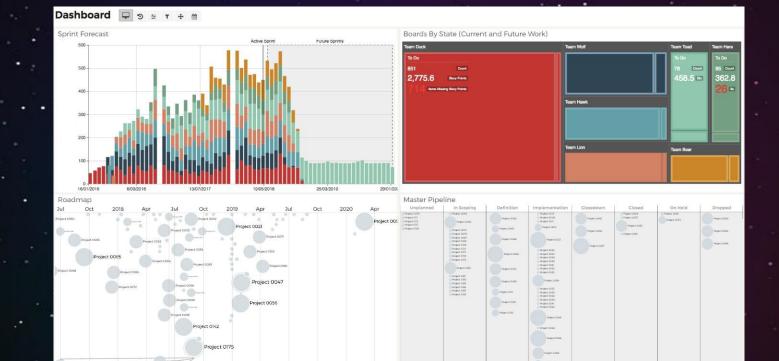
Project Performance







Agile Portfolio Dashboard



Agile Conclusion

- Agile need not be the end of clarity
- With the right tools you can shine light into the Agile world
- Now its visible
 - Now you can understand:
 - report, explain, discuss, resolve
- Now you can control
 - direct effort to maximise returns or impact



Its different here! Software Transport Airline, Rail Consultancy LEP Accountant Government Construction Banking Standards Product Council Police NHS Catapult Electronics Oil & Gas

, BIT

Case Study 2

The Drone Case Study

Robert Garbett

Chief Executive Drone Major Group







THE GLOBAL COMMERCIAL TRADE ORGANISATION FOR THE DRONE INDUSTRY

Drone Major Group is the world's first global commercial organisation dedicated to connecting, supporting and trading with all stakeholders in the drone industry at every level and across every environment (surface, underwater, air & space).

WHAT IS POSSIBLE - WHERE TO BUY IT - HOW TO IMPLEMENT SAFELY AND EFFECTIVELY

Launched Sept 2017 | £100M + Opportunities | 1 Billion readers | Over 50,000 Subscribers



Drone Standards

Drone Major Group are at the forefront of the development of standards for the drone industry in the UK, Europe and Internationally

- We hold the Chair of the BSI ACE 20 Committee National Drone Standards
- Members at ASD-Stan D5 WG8 Drone CE Standards
- Convenorship of ISO TC20/SC16 WG3 *Operations*
- Membership of ISO TC20/SC16 WG2 Manufacturing
- Membership of ISO TC20/SC16 WG4 Unmanned Traffic Management (UTM)
- Lead on the development of the ISO Roadmap for the development of drone standards



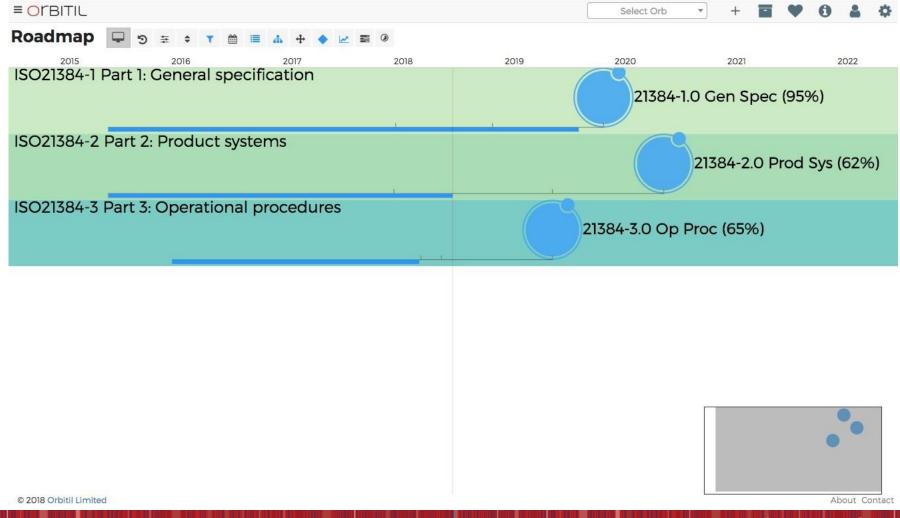
The ISO Roadmap Project

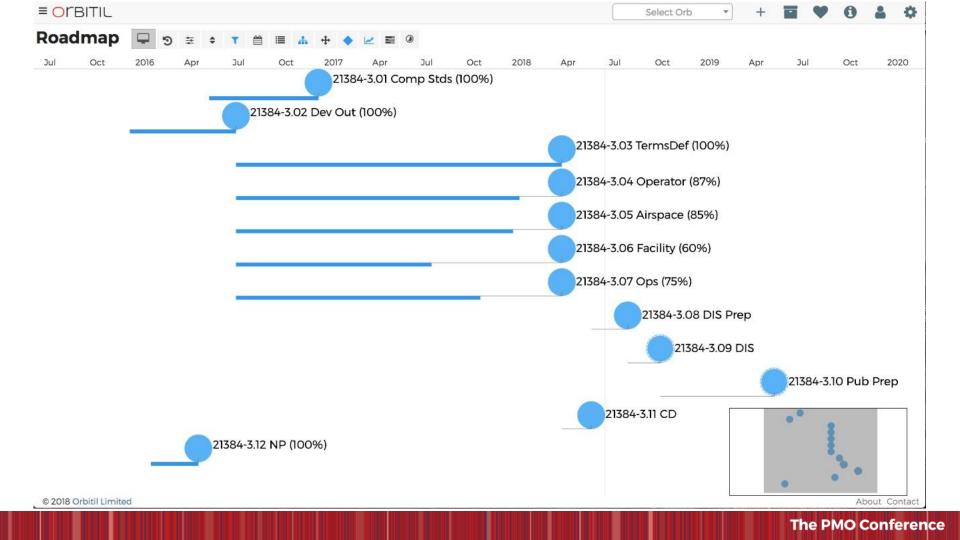
The roadmap for ISO TC20/SC16 UAS Standards project requires:

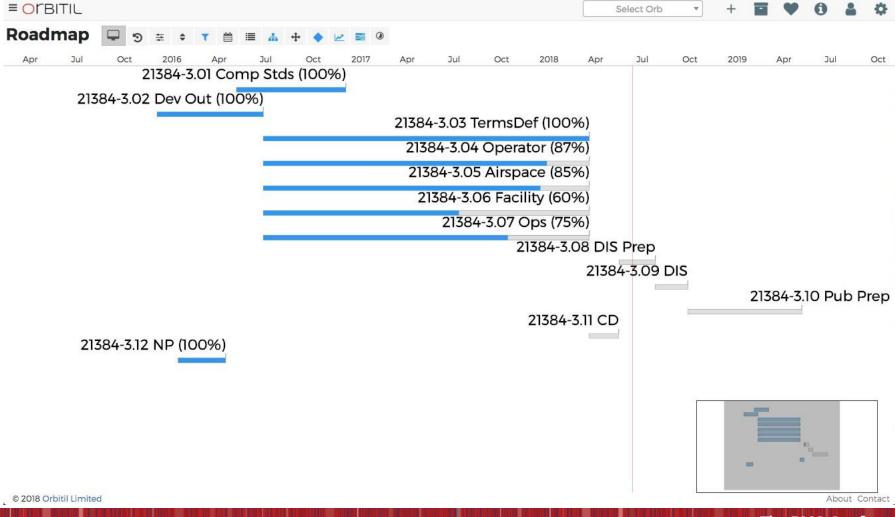
- Mapping out work done and progress
- Planning of future work items
- Development of projects
- Management of teams

Important that any system used is powerful but simple.









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Summary Report 📮 🕤 😑 🔻 🛗

Name	Progress (End	Sponsor	Pipeline Stage	Start Date	End Date
ISO21384-1.1 Research into Complimentary Standards/Regulations	100%	Dr. Frank Fuchs	Complete	7/05/2015	3/12/2015
ISO21384-1.2 Development of Outline Structure	100%	Dr. Frank Fuchs	Complete		26/06/2016
ISO21384-1.3 Terms and definitions	100%	Dr. Frank Fuchs	In Review	27/06/2016	6/12/2017
ISO21384-1.4 Rectification and Preparation for Draft Phase	4596	Dr. Frank Fuchs	Not Started	21/02/2018	21/10/2018
ISO21384-1.5 DIS Ballot	0%	Dr. Frank Fuchs	Not Started	21/10/2018	21/12/2018
ISO21384-1.6 Rectification and Preparation for Publication	0%	Dr. Frank Fuchs	Not Started	22/12/2018	21/10/2019
ISO21384-1.7 Committee Draft Ballot	100%	Dr. Frank Fuchs	Complete	6/12/2017	2/02/2018
ISO21384-1.8 New Project Ballot	100%	Dr. Frank Fuchs	Complete	6/01/2016	7/04/2016
ISO21384-2.01 Research into Complimentary Standards/Regulations	100%	Lance King	Complete	7/05/2015	3/12/2015
ISO21384-2.02 Development of Outline Structure	100%	Lance King	Complete	3/12/2015	8/03/2017
ISO21384-2.03 Terms and definitions	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.04 Airframe	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.05 Propulsion	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.06 Electrical system	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.07 Flight control and avionics	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.08 Control station and data links	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.09 Computer systems and software	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.10 Automation	95%	Lance King	In Progress		28/06/2018
ISO21384-2.11 Payload	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.12 System airworthiness	95%	Lance King	In Progress	8/03/2017	28/06/2018
ISO21384-2.13 UAS traffic management (UTM)	95%	Lance King	In Progress		28/06/2018
ISO21384-2.14 Rectification and Preparation for Draft Phase	0%	Lance King	Not Started	2/10/2018	6/05/2019
ISO21384-2.15 DIS Ballot	0%	Lance King	Not Started	6/05/2019	6/07/2019
ISO21384-2.16 Rectification and Preparation for Publication	000	Lance King	Not Started	6/07/2019	6/05/2020
ISO21384-2.17 Committee Draft Ballot	0%	Lance King	Not Started	1/07/2018	1/10/2018
ISO21384-2.18 New Project Ballot	100%	Lance King	Complete	9/01/2016	10/04/2016
ISO21384-3.01 Research into Complimentary Standards/Regulations	100%	Robert Carbett	Complete	5/05/2016	
ISO21384-3.02 Development of Outline Structure		Robert Garbett	Complete		26/06/2016
ISO21384-3.02 Development of Outline structure	100%	Robert Garbett	In Review		20/03/2018
ISO21384-3.04 Operator	100%		In Review		20/03/2018
	100%	Robert Carbett			
ISO21384-3.05 Airspace	100%	Robert Garbett	In Review		20/03/2018
ISO21384-3.06 Facility and equipment	100%	Robert Garbett	In Review		20/03/2018
ISO21384-3.07 Operations	100%	Robert Garbett	In Review		20/03/2018
ISO21384-3.08 Rectification and Preparation for Draft Phase	28%	Robert Garbett	In Progress		26/07/2018
ISO21384-3.09 DIS Ballot	0%	Robert Garbett	Not Started		27/09/2018
ISO21384-3.10 Rectification and Preparation for Publication	0%	Robert Garbett	Not Started	27/09/2018	
ISO21384-3.11 Committee Draft Ballot	100%	Robert Garbett	Complete		16/05/2018
ISO21384-3.12 New Project Ballot	100%	Robert Garbett	Complete		14/04/2016
ISO21895.1 Research into Complimentary Standards/Regulations	100%	Dr. Frank Fuchs	Complete		30/11/2015
ISO21895.2 Development of Outline Structure	100%	Dr. Frank Fuchs	Complete	8/03/2017	14/03/2017
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Project Management Driving Progress

Drone Major provides services to Buyers and established Suppliers of drones and drone related equipment throughout the world, including advice and strategic consultancy which enables Buyers to:

- Navigate the widening applications for drone technology
- Advising on what is possible
- Where to buy it
- How to implement it safely and effectively.



Our Key Work Packages are aligned to the Drone Lifecycle and grouped according to competency

Drone Lifecycle	Strategy & Requirements	Procurement	Operationalisation	Deployment and Continual Optimisation
Strategic Guidance	 Develop business requirements Engage Senior Stakeholders 	 Manage procurement channels Secure buy-in from senior stakeholders 		 Provide benchmarked overview of market Host and run supplier / buyer conferences
Operational Execution	 Develop operational and functional requirements Develop capability model and identify gaps Review market best practice delivery models 	 Pilots / proofs of concept / demonstrations Ensure alignment of operational and functional requirements Provide best practice blue print for operationalisation 	•QA for key implementation of drone facilities	• Ongoing QA & Best Practice blueprint
Commercial Support	 High level business case Understand key regulatory requirements Understand financing Identify potential suppliers Understand market opportunities 	 Release and manage RFP Manage down select process Execute contact 	 Ensure supplier commitments are fulfilled Ensure regulatory sign-off 	 Ongoing review against Ts and Cs Manage warranties and other commercial mechanism Ongoing review of regulatory changes

THANK YOU ORBITIL



Summary

PMOs whatever their organisation need good tools

- Reporting, explaining
- Analysis, problem solving
 - Planning
- Agile projects present numerous development benefits
 - Progress can be opaque
 - Managing difficult

The right tools can shine light into this murky world,

bring back understanding

Whatever development strategy, analytics allow you to fail fast.

Better in a simulator than reality

Visible

Understand

Control



Thank you

Tools to aid decisions are essential To maximise

- Productivity,
- Benefits
- Impact

Whatever your business or organisation

Agile governance needs analytics and visualisation

Thanks to:
Karl Forbes, Inca Digital
Sepura
Robert Garbett, DroneMajor

Graham Pink <u>contactus@orbitil.com</u> Stand 7