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



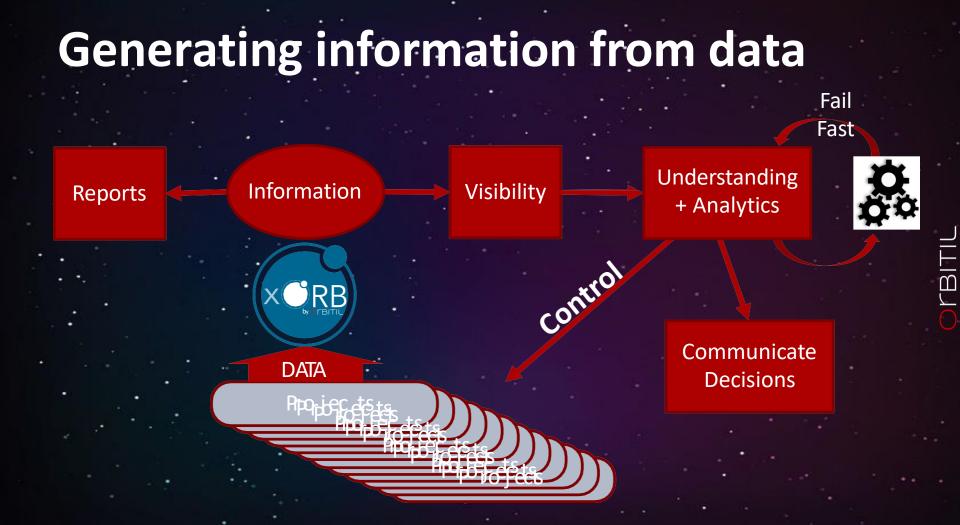


Gov Orb Productivity & Impact

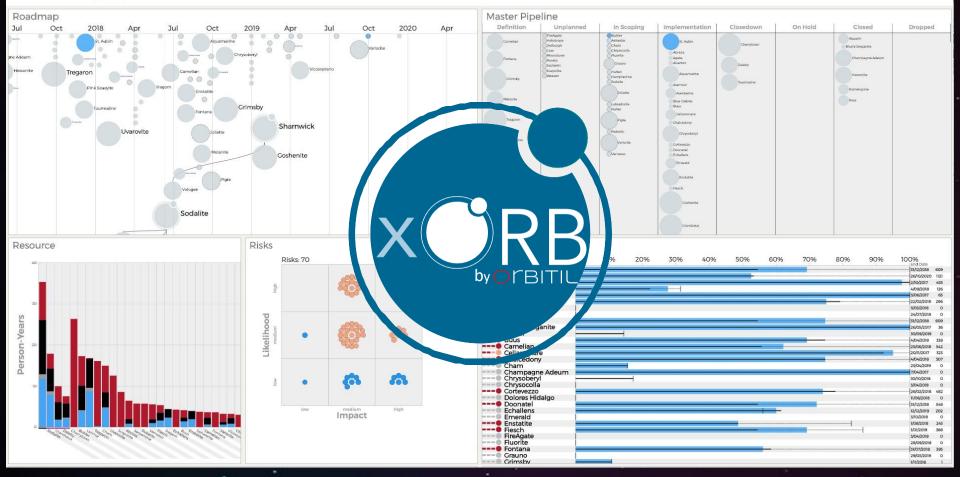
Orbitil

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?

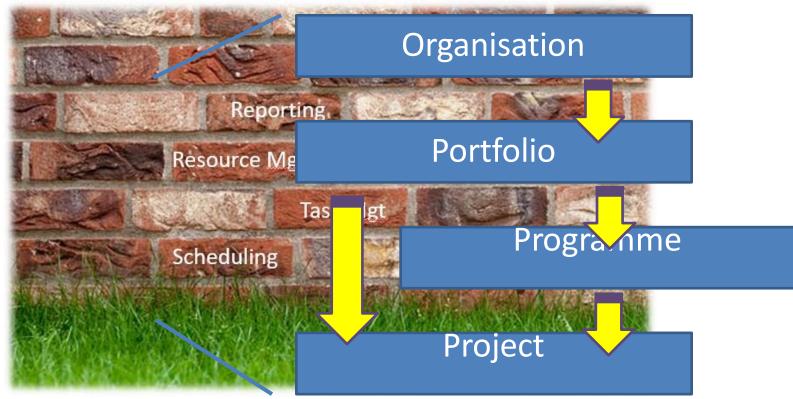


Karl Forbes R&D Projects Director Inca Digital Printers

PM building blocks



PM building blocks – complexity mapping







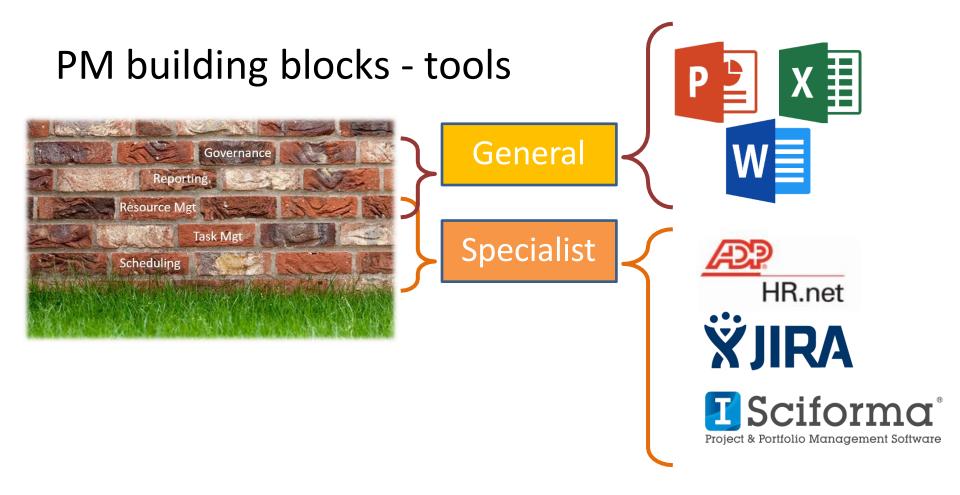
a Hytera company

~€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???

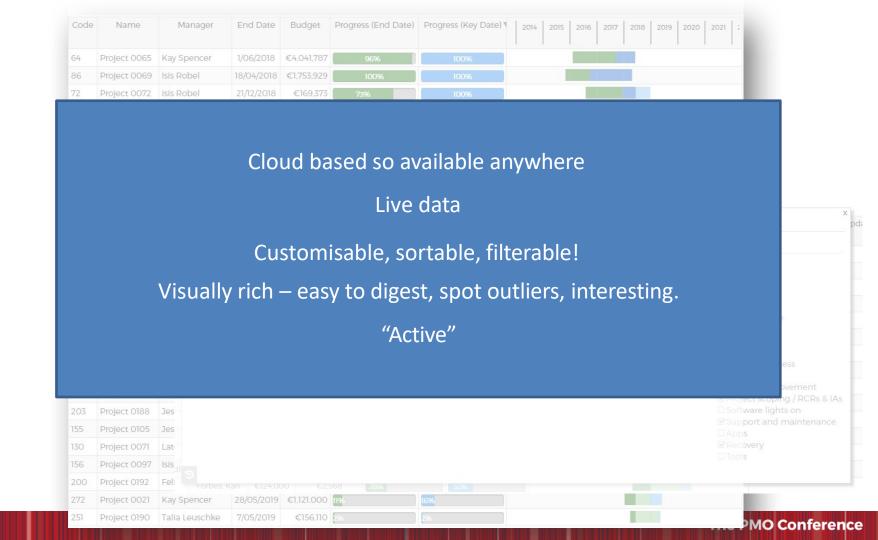


Project Governance - Toolset

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

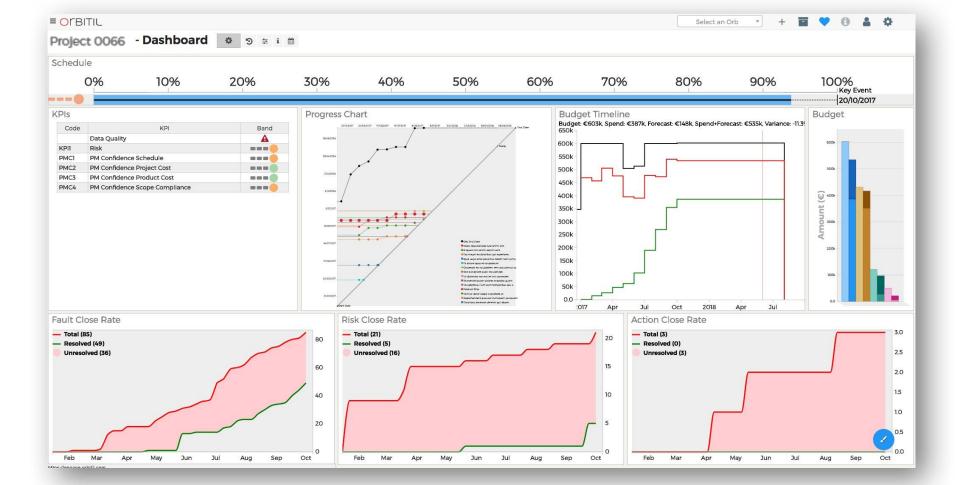


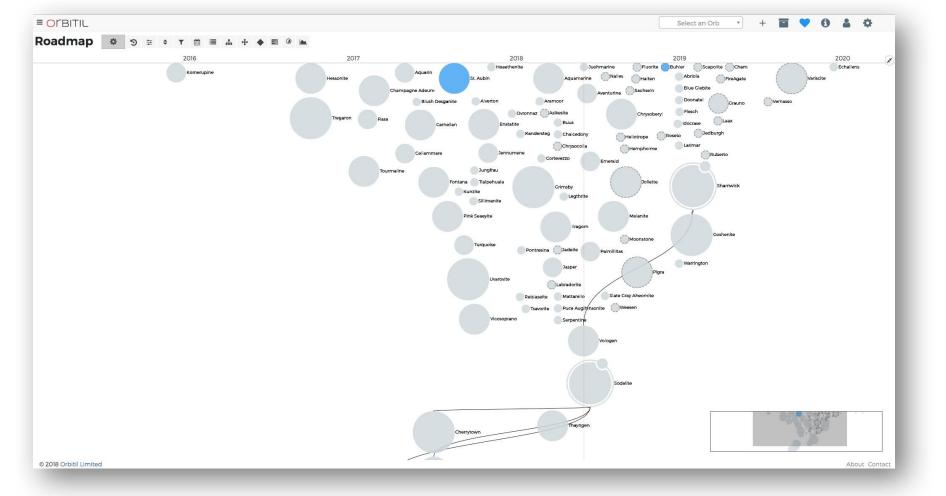
- Minimal disruption to our existing tools or practices
- Low overhead
- Customisable
- Levels
- Insightful!



| 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





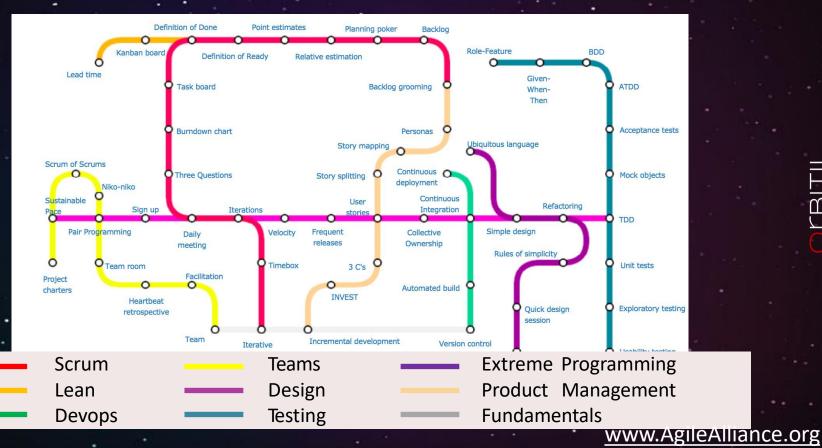
Agile Manifesto

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

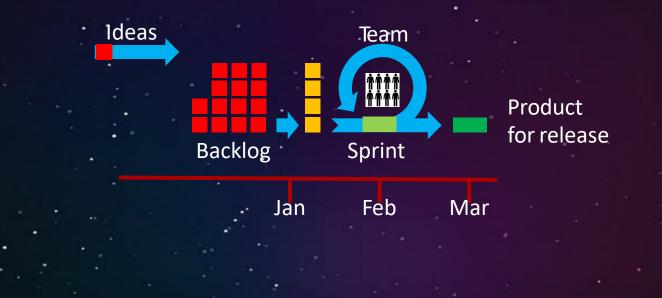
Agile Manifesto 2001



Agile umbrella: tribes & areas



Benefits of Agile development



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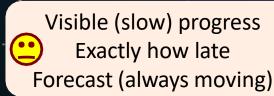
Life in an Agile World

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

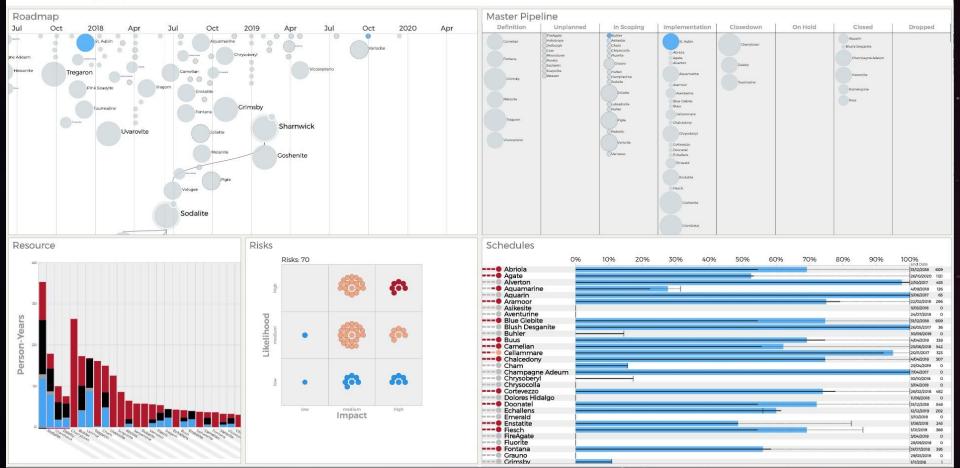
Managing in an Agile World

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?

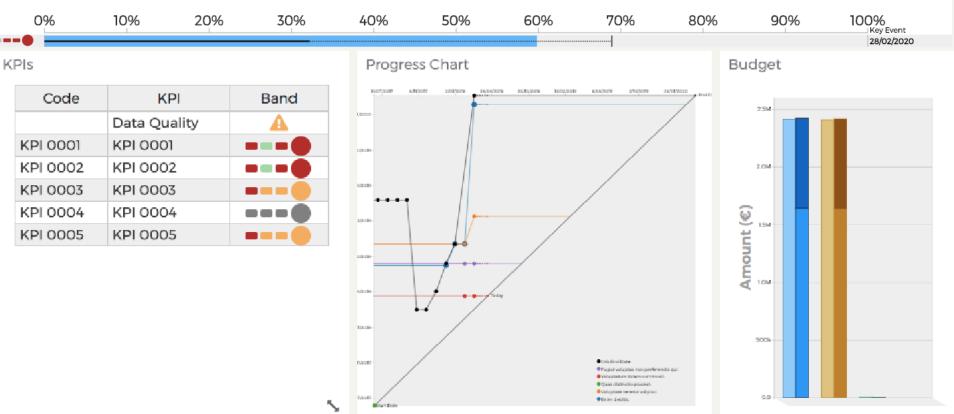
We need to understand Agile projects to manage them

■ OTBITIL Dashboard * 5 ± T +

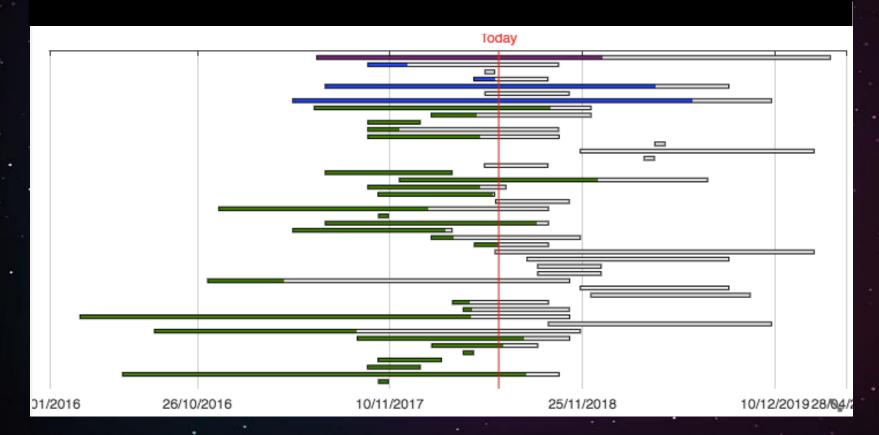


Project Basics

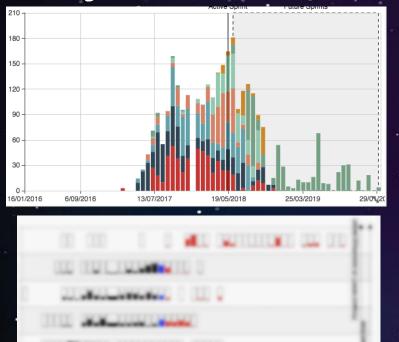
Schedule

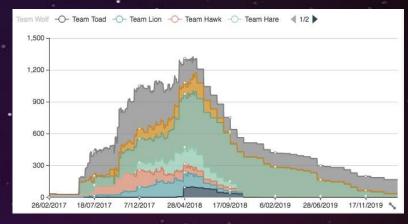


Project Plan



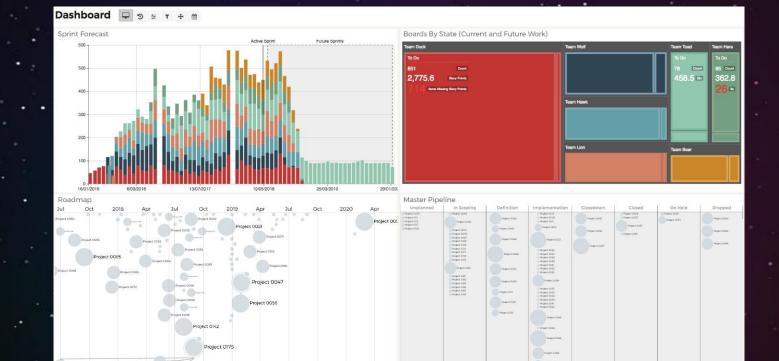
Project Performance







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



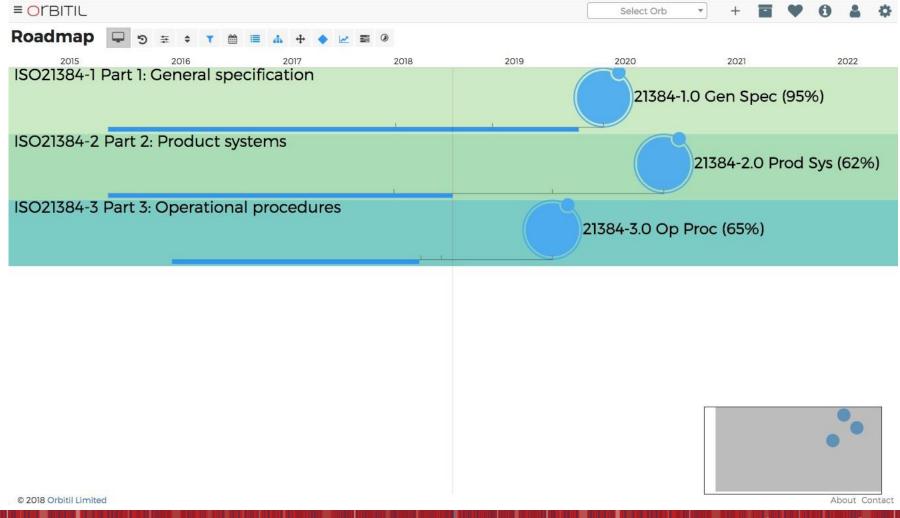
The ISO Roadmap Project

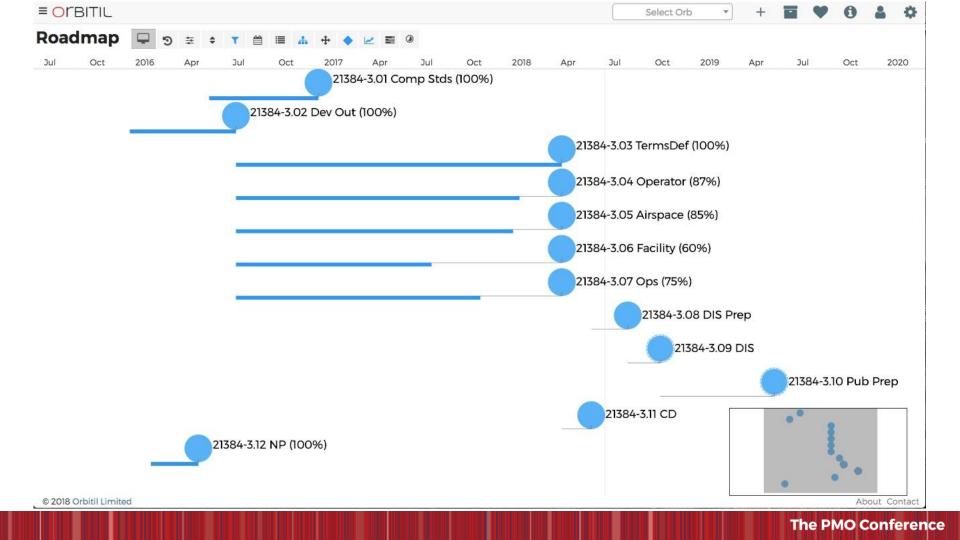
The roadmap for ISO TC20/SC16 UAS Standards project requires:

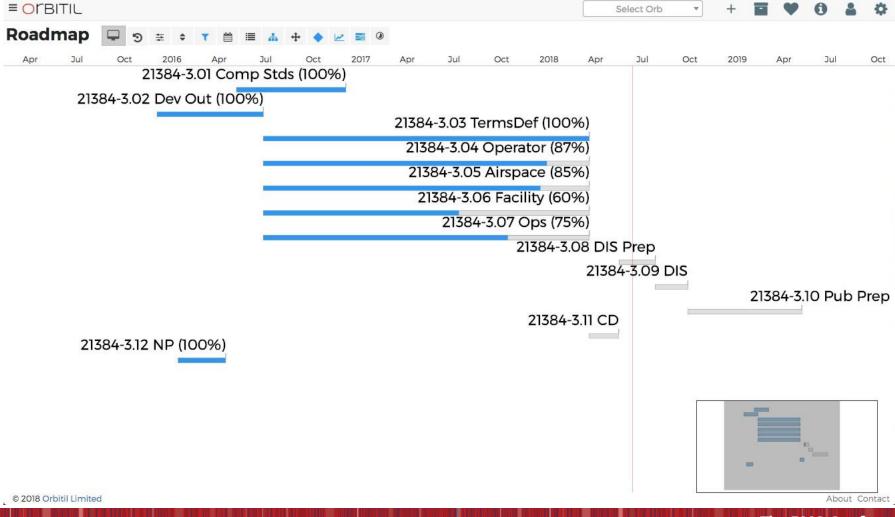
- Mapping out work done and progress
- Planning of future work items
- Development of projects
- Management of teams

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