

AUSTRALIAN OFFSHORE

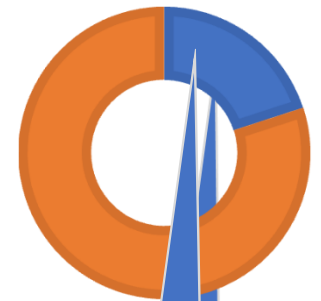
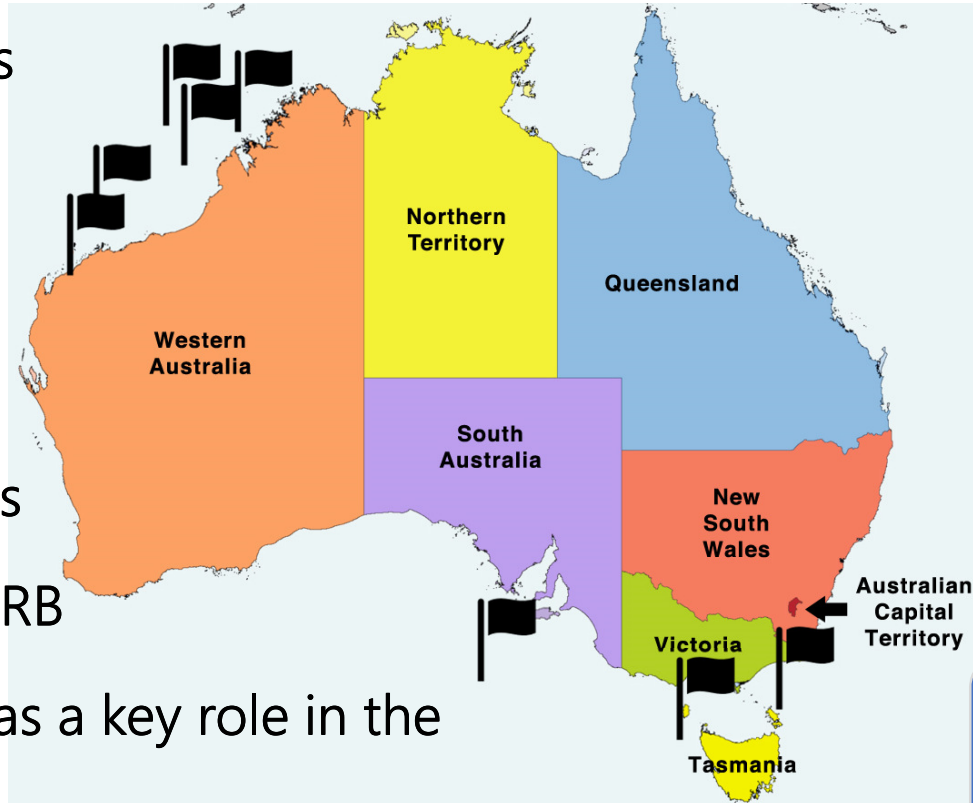
Data Management Initiatives 2019-2020

*Presentation for NDR Utrecht
Tuesday 15th October 2019*

Mark Ducksbury – NOPTA

NDR 2019 – Offshore Australia

- Offshore titles and types
- Titleholders
- Gas volumes & impacts
- Oil Volumes & impacts
- Activity levels and trends
- NOPTA, NOPSEMA & ORB
- Recognition that data has a key role in the industry



20% of NOPTA's budget - around \$3 million

16% of NOPTA's staff – 9 persons

an 'open' information regime – data should be shared

What characterises petroleum data management in Australia?

It is an industry - acquirers, providers, value-adders, vendors, resellers

- Low cost environment has changed the data focus
- Interest in data – 'big data', machine learning & AI
- Changing technologies and types – need to respond
- Improving access to quality data v's protecting commercial interest – can we do both?
- Keeping the balance between prescriptive & objective
- Inconsistent interpretation and expectations between jurisdictions
- Present regulatory framework is not ideal!



increasing expectations - timeliness, accessibility & interoperability

Data Team Achievements & Challenges

Since 2012 we have:

- ★ Defined NOPTA's role in confidential & open-file data
- ★ Gained acceptance that 'good' DM is a priority for all
- ★ Established a national repository (NOPDCR) with GA & DMIRS
- ★ Reinforced submission & compliance expectations
- ★ Built a competent team & gained industry credibility
- ★ Consolidated & integrated collections from each state into a Commonwealth collection
- ★ Eliminated backlogs from years of 'neglect'
- ★ Made more data available than ever before & made it easier to obtain
- ★ Moved to a more pro-active mode – sheer luxury!



incremental progress has been the key to our success

Regulatory Development Issues – what's wrong?

NOPTA does not make the regulations but we can influence

- ✖ Current regulations are out-of-date, inflexible & don't support any of the stakeholder objectives – including ours!
- ✖ Are all reported items still relevant?
- ✖ How do we manage new techniques & technologies?
- ✖ Why can the TA vary some requirements but not others?
- ✖ What are the appropriate periods of confidentiality?
- ✖ Is permanent confidentiality still valid for certain data?
- ✖ For how long should data & samples be retained?
- ✖ How can we develop meaningful guidelines and advisories?
- ✖ Can we reduce confusion & ambiguity?

We have a process for change



Data Compliance Benchmarking - why do it?/How to do it

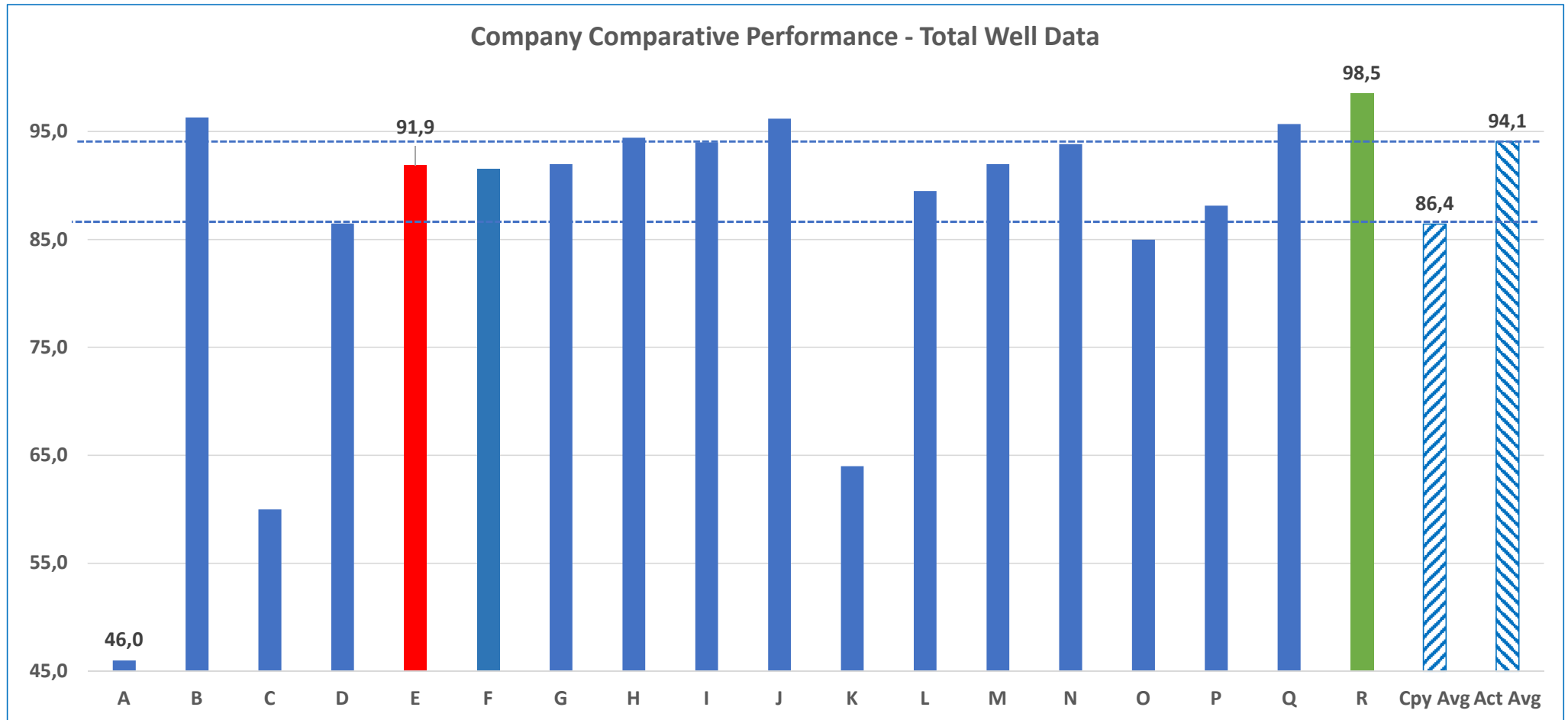
Everybody wins!

What can we benchmark?

How do we do it?

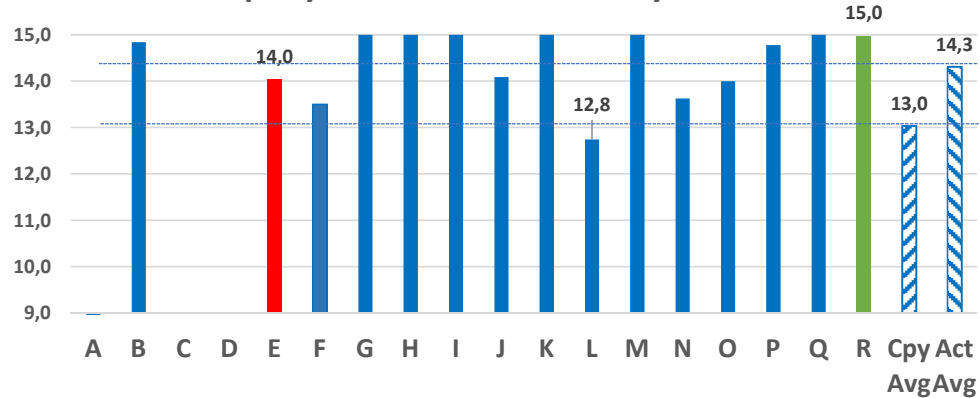
NOPTA Data Management - Activity Benchmarking Template									
Category	Timeliness								
Initial submission 'package' by regulated submission date	on time	< 2 weeks	< 4 weeks	< 6 weeks	< 8 weeks	< 12 weeks	< 16 weeks	> 16 weeks	Variation adjustment Y/N
Level of submission timeliness	100%	90%	80%	60%	40%	20%	10%	0%	Y
NOPIMS report or shared drive upload date	Note - credit of one category applied where proactive submission variation is granted prior to due date, if time is extended (still judged on time of submission but adjusted for 'engagement').								
15% of final combined score - actual mark	15	14	12	9	6	3	2	0	
Category	Completeness								
All required items provided within submission at regulated date	complete	missing 1	missing 2	missing 3	missing 4	missing 5	missing 6	missing > 6	Variation adjustment
Level of completeness of submission 'package'	100%	90%	80%	70%	60%	50%	20%	0%	Y/N
Regulatory checks - items missing	Note - credit of one category applied where proactive submission variation is granted prior to due date, if contents are varied (still judged on contents but adjusted for 'engagement').								
30% of final combined score - actual mark	30	27	24	21	18	15	6	0	
Category	Usability								
Fitness for purpose at time of data release	All items verified	1 item unverified	2 items unverified	3 items unverified	4 items unverified	5 items unverified	6 items unverified	> 6 items unverified	Variation adjustment
Level of usability and validity of data items	100%	90%	80%	70%	60%	50%	20%	0%	Y/N
File compliance checks	Note - where an issue is proactively identified by the submitter (and it leads to improvement in the data available), credit of one category is applied (still judged on fitness but adjusted for 'engagement').								
40% of final combined score - actual mark	40	36	32	28	24	20	8	0	
Category	Responsiveness								
Rework and iterations required to ensure fitness	No compliance activity required	1 compliance contact required	2 compliance contacts required	3 compliance contacts required	4 compliance contacts required	5 compliance contacts required	6 compliance contacts required	> 6 compliance contacts required	Feedback after release
Measure of responsiveness and need to resubmit	100%	90%	80%	70%	60%	50%	20%	0%	Number and issue(s)
SharePoint, emails to/from data@nopta, resubmissions received	Note - important not to double-count compliance contacts. Multiple issues resulting in a single resubmission count as one contact/resubmission. Where there is no response, multiple attempts to contact count as multiples.								
15% of final combined score - actual mark	15	14	13	12	9	8	3	0	
Total = Timely + Complete + Fit + Response e.g.	67								
Issues identified after release									
Titleholder									
Activity Name									
Activity Type					Region/Basin			Checked By	
Title					Date Due			Date Checked	

Data Compliance Benchmarking – peeling the onion (1)

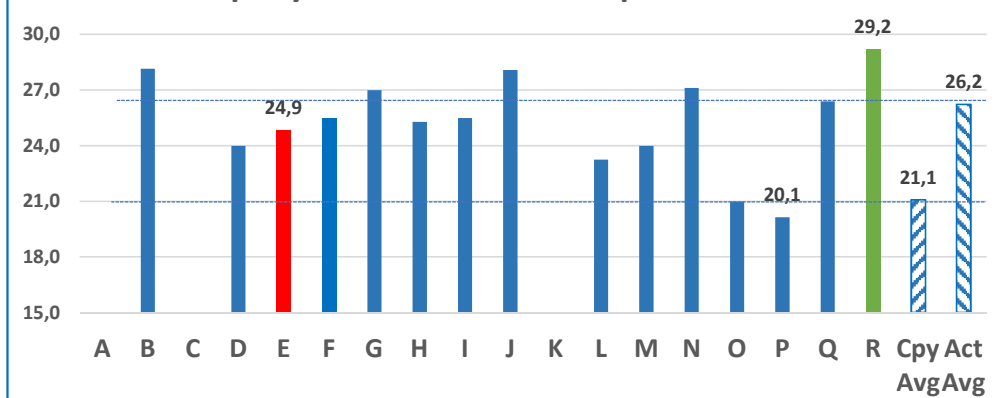


Data Compliance Benchmarking – Peeling the onion (2)

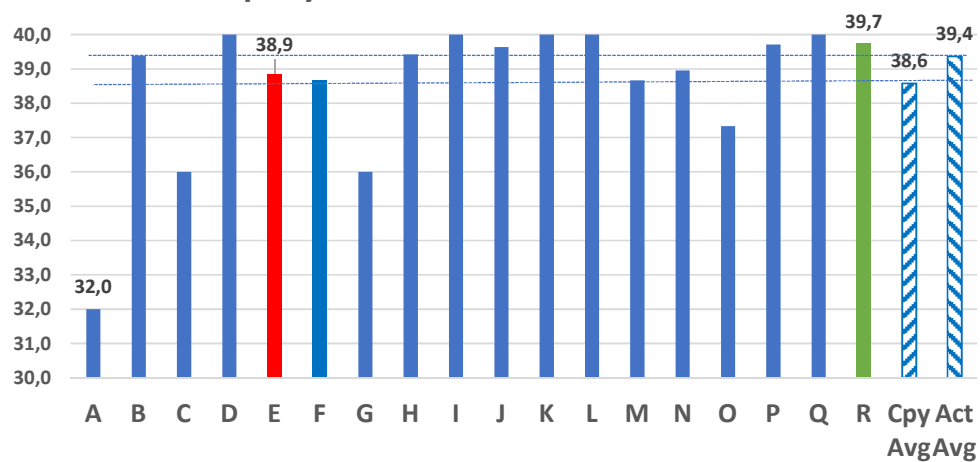
Company Performance – Timely Well Data



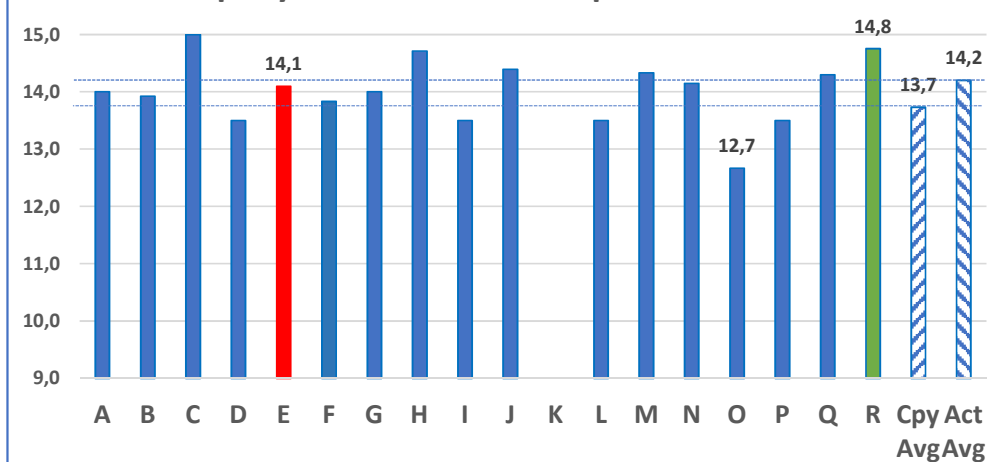
Company Performance – Complete Well Data



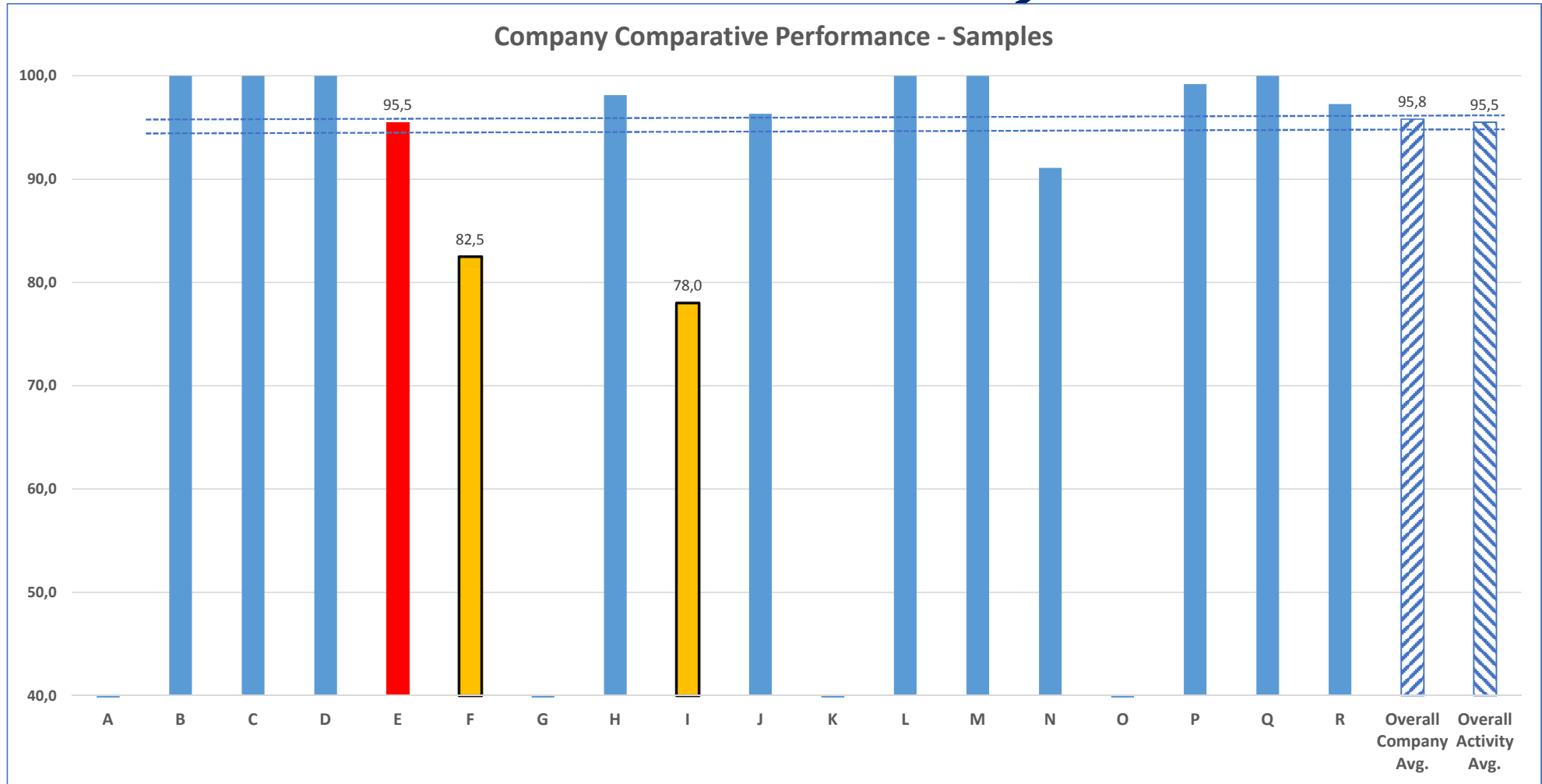
Company Performance – Usable Well Data



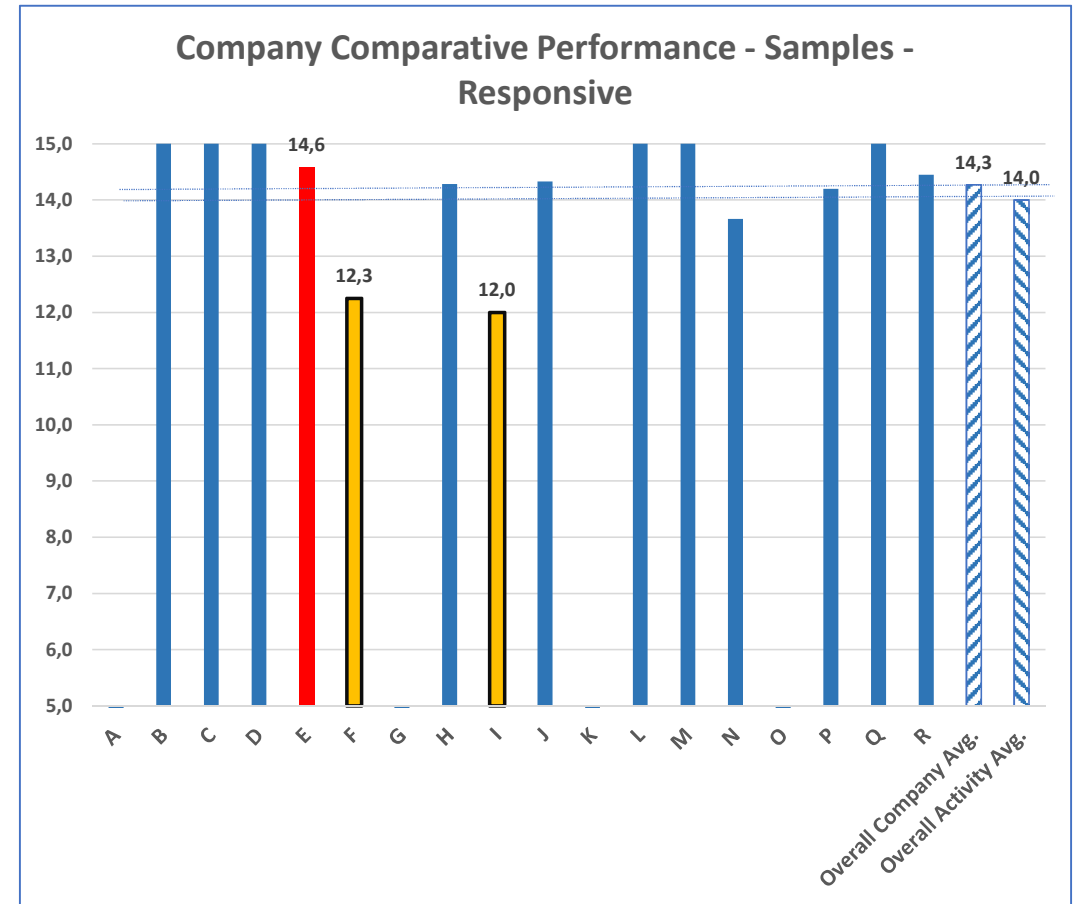
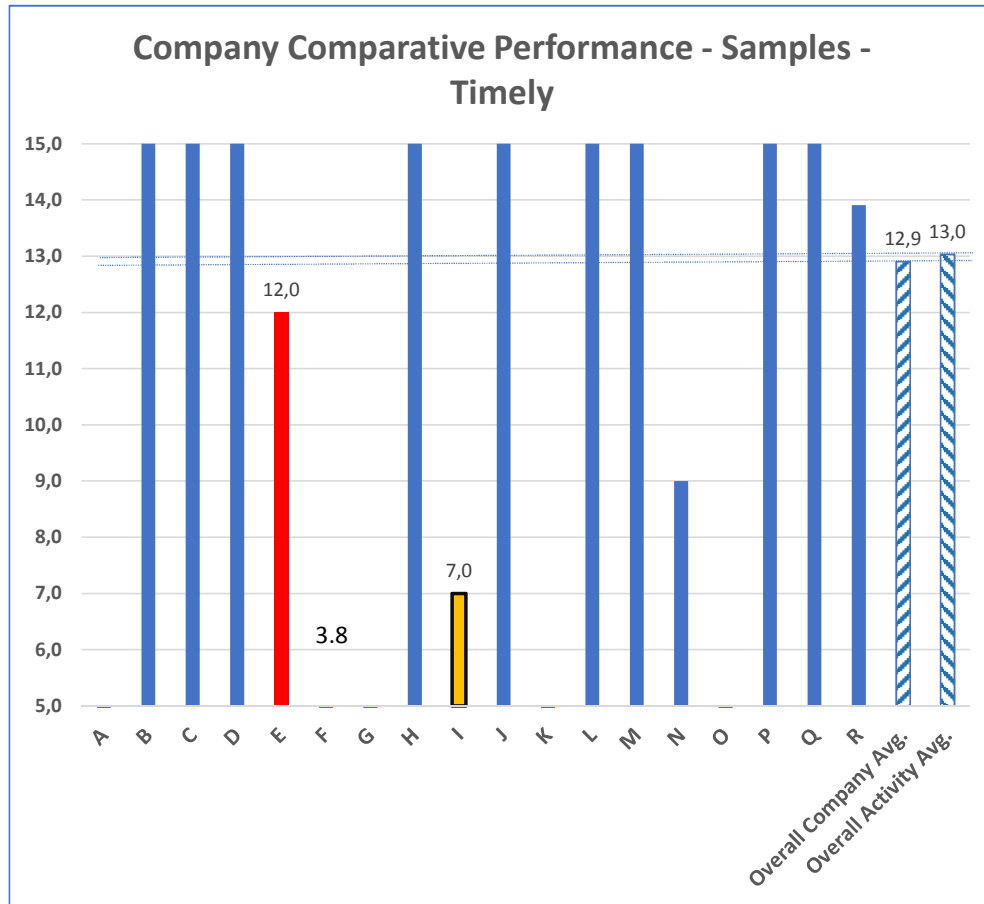
Company Performance - Responsive Well Data



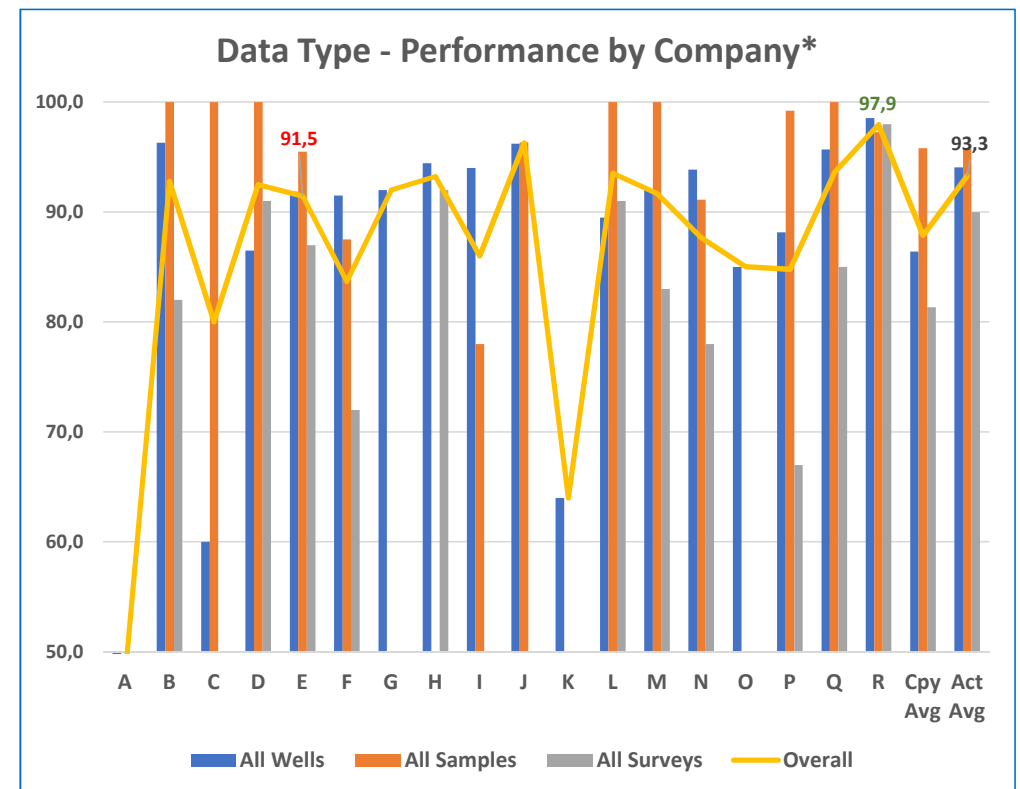
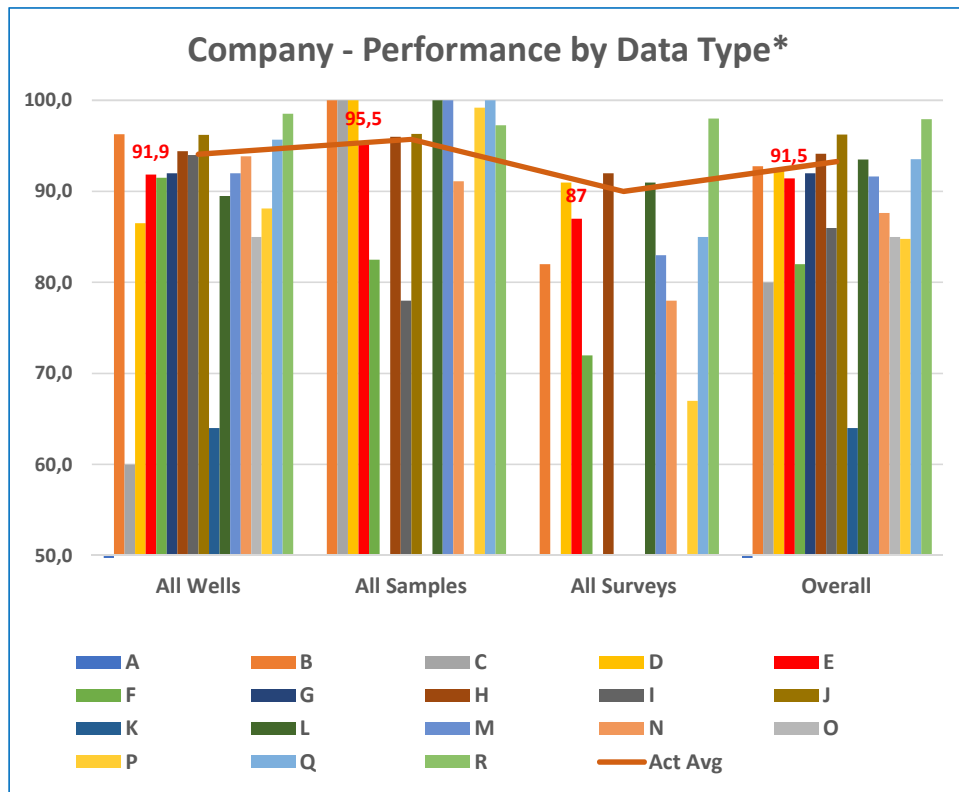
Data Compliance Benchmarking - Peeling the onion (3)



Data Compliance Benchmarking - Peeling the onion (4)

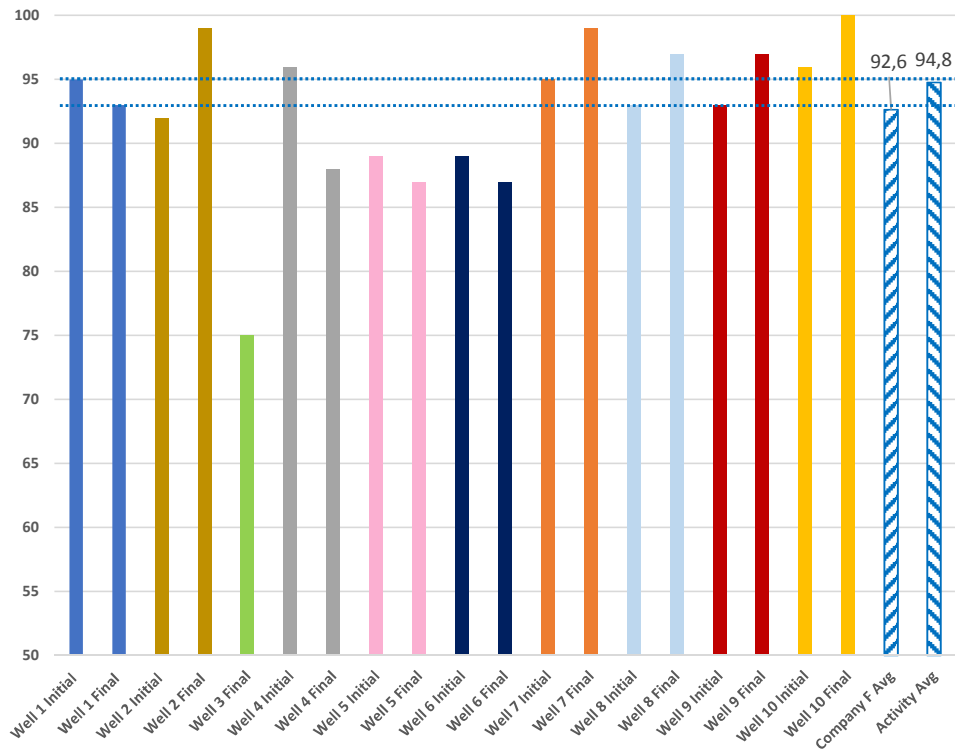


Data Compliance Benchmarking – lessons for companies (1)

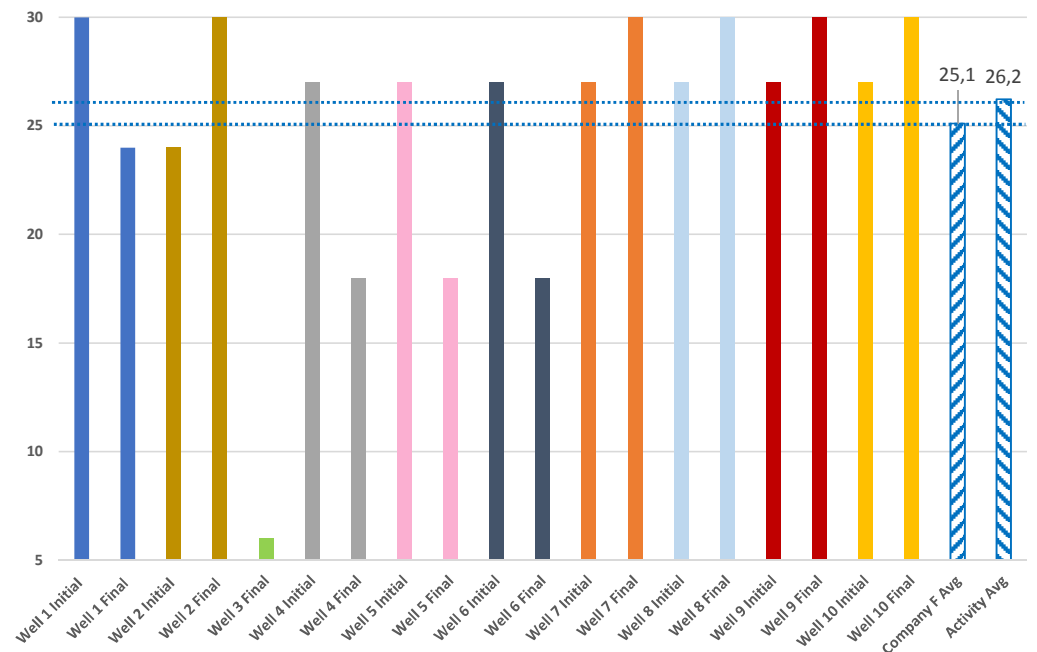


Data Compliance Benchmarking – lessons for companies (2)

Company E Well Data - Performance by Activity - Totals

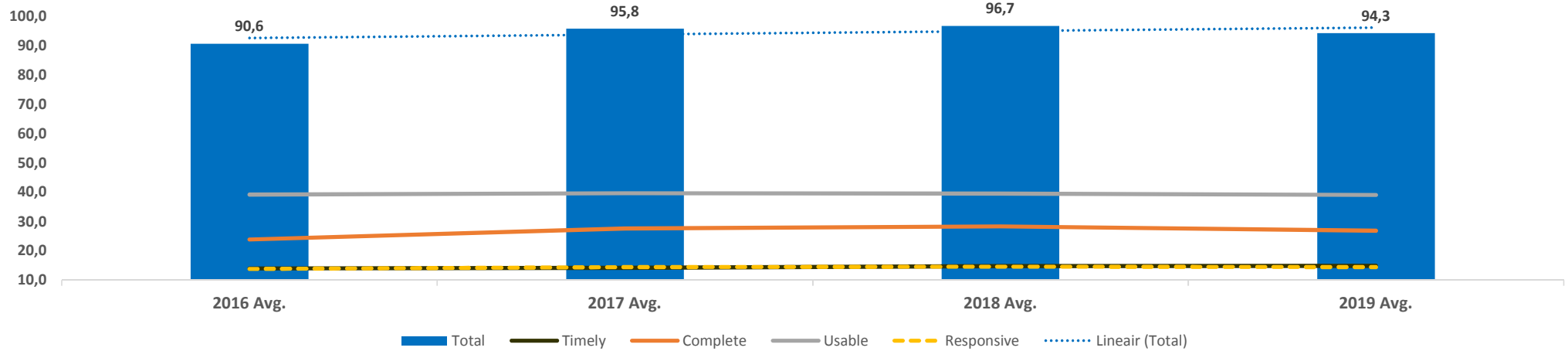


Company E Well Data - Performance by Activity - Completeness

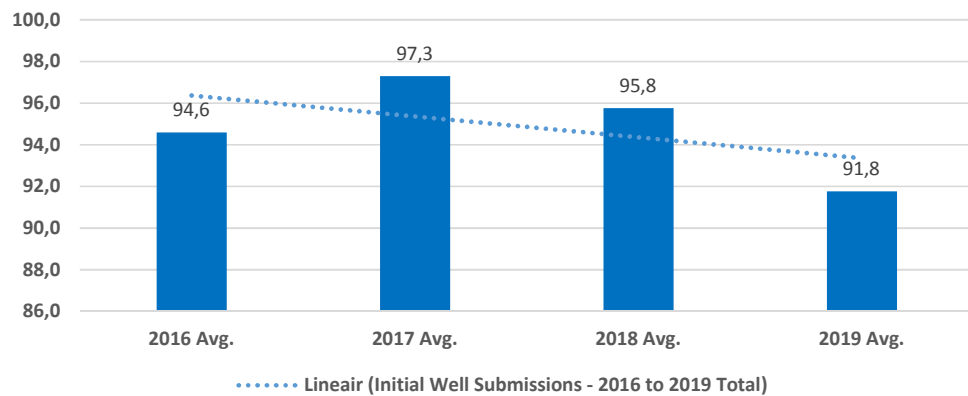


Data Compliance Benchmarking – lessons for Regulators (1)

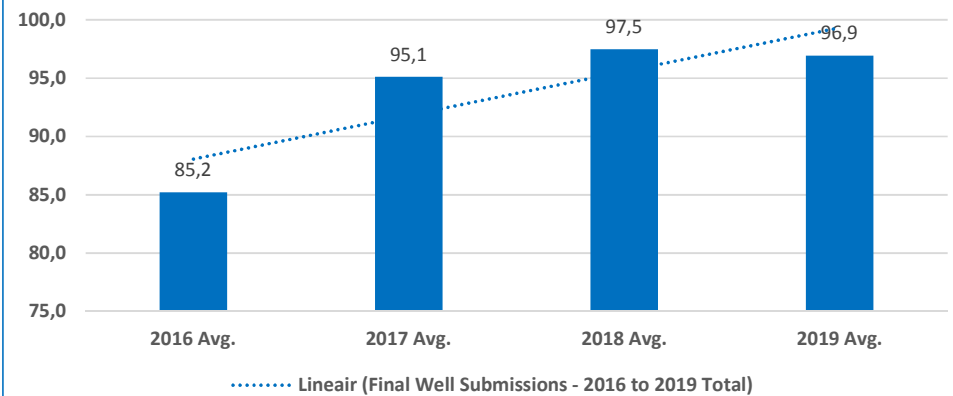
Overall Well Data Performance Trends - 2016 to 2019



Initial Well Data Submission Trends - Totals

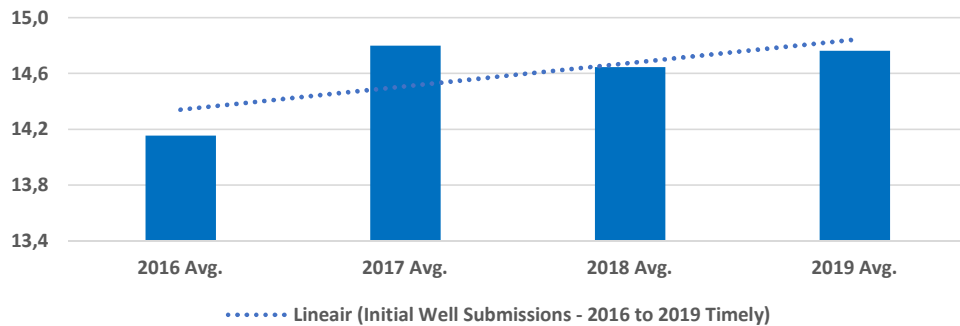


Final Well Data Submissions Trends - Totals

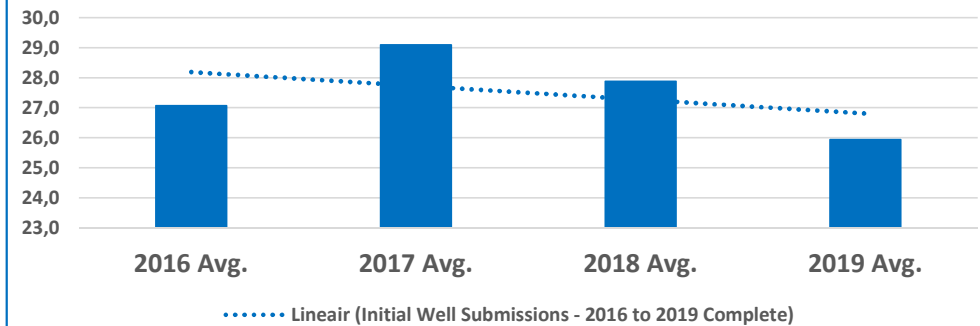


Data Compliance Benchmarking – lessons for regulators (2)

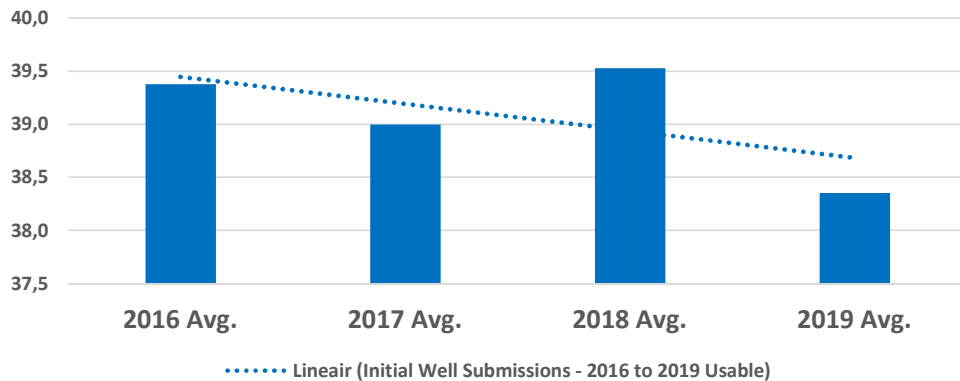
Initial Well Submission Trends - Timely



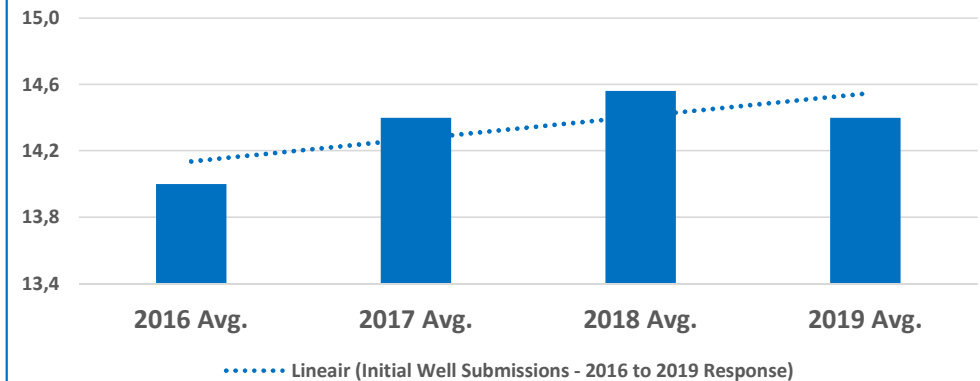
Initial Well Submission Trends - Complete



Initial Well Submission Trends - Usable



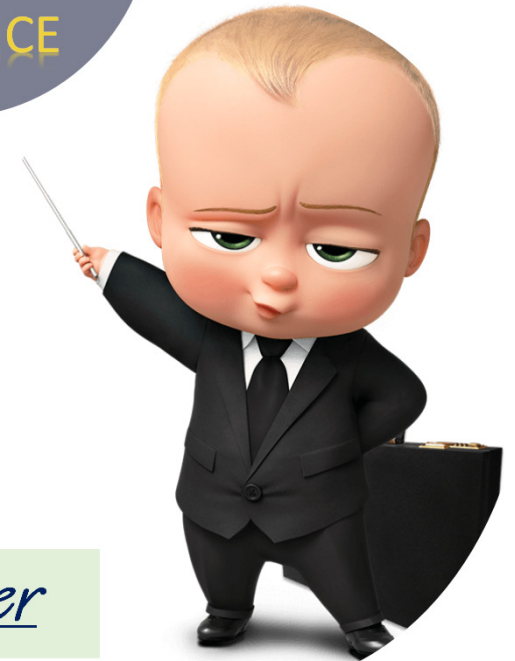
Initial Well Submission Trends - Responsive



What's next?

Data Team – 2019 & 2020 Initiatives

- 🎯 Data compliance benchmarking
- 🎯 Regulation & guidance development
- 🎯 NOPIMS business processes & future program
- 🎯 Linking discovery/delivery with titles & record systems
- 🎯 Resource management data & statistics
- 🎯 Review of survey quality control processes
- 🎯 International liaison & consultation



We are open to ideas and ways of doing things better

NOPTA's Data Team - warning, not really us

“

We contribute a positive and professional reputation to NOPTA

We work here because we are passionate about what we do and we do it with integrity

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