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PX strikes back!

PC-Axis 2018, Bilbao (SP)



New look

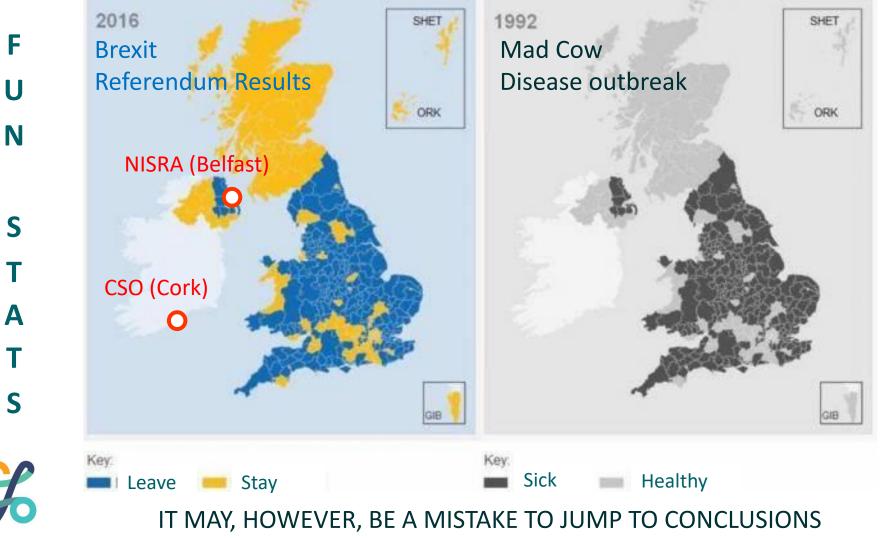






An Phríomh-Oifig Staidrimh

Central Statistics Office





- API Application Program Interfaces
- M2M Machine To Machine



Talk to...







Amazon Alexa



Facebook Messenger











- **PC-Axis Community**
- PX format
- API / JSON-Stat
- More...





- Best of both
- Controls & Workflows
- Open Source (for real)

Learning from...

- PX Reference Group 2016
- PX Reference Group 2017



- **Data Management**
- **Modularity**
- Open Source (almost)
- More...



PxStat









3 Tiers Architecture (goodbye MVC)

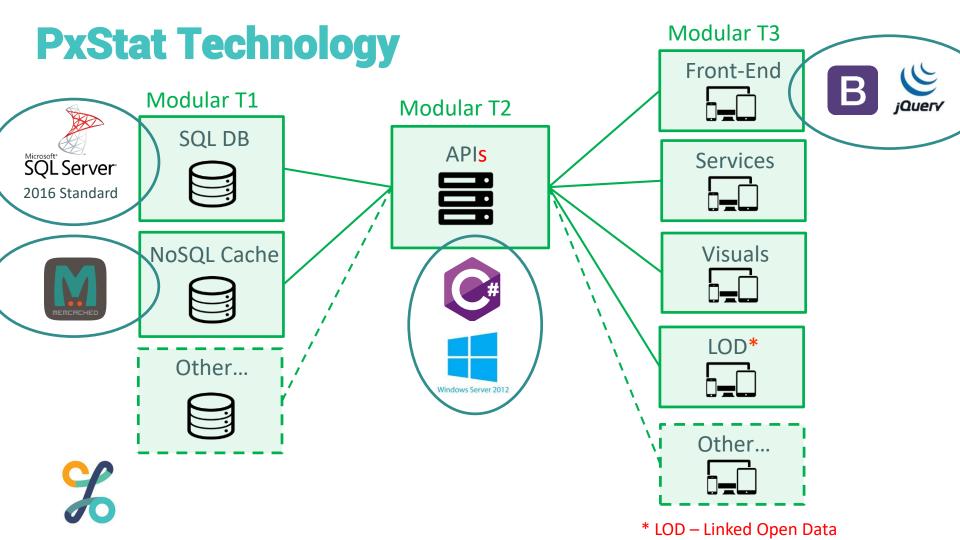
Abstracted Statistical Entity

- Access & Confidentiality Controls
- Version & Change Controls
- Release & Approval Workflows
- Very Short Timeline





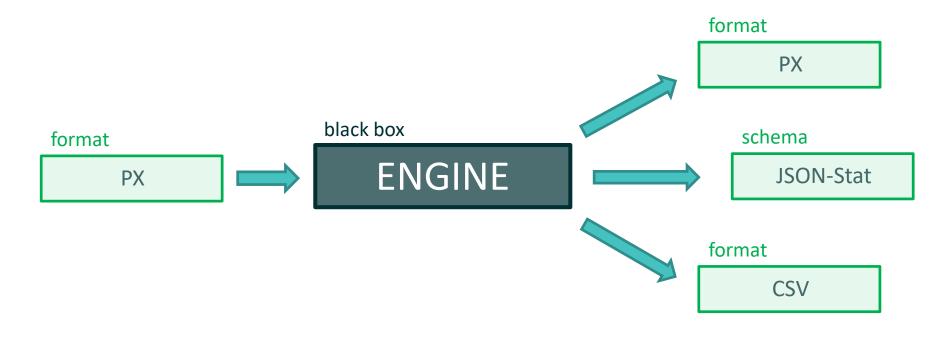






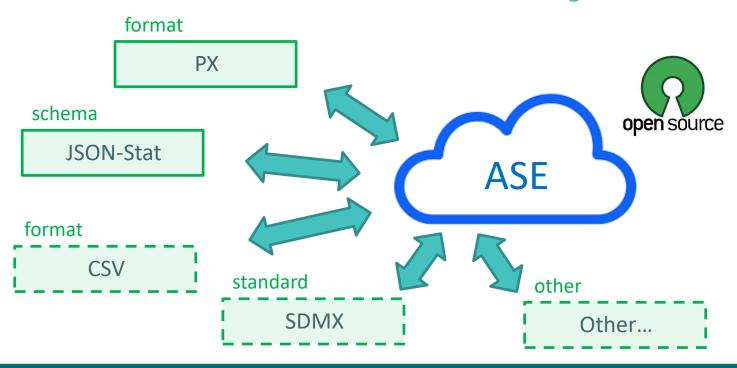


Current Scenario





ASE - Abstracted Statistical Entity





Performance with ASE

Like for like...

OVER 120 FASTER

Really?!

YES M

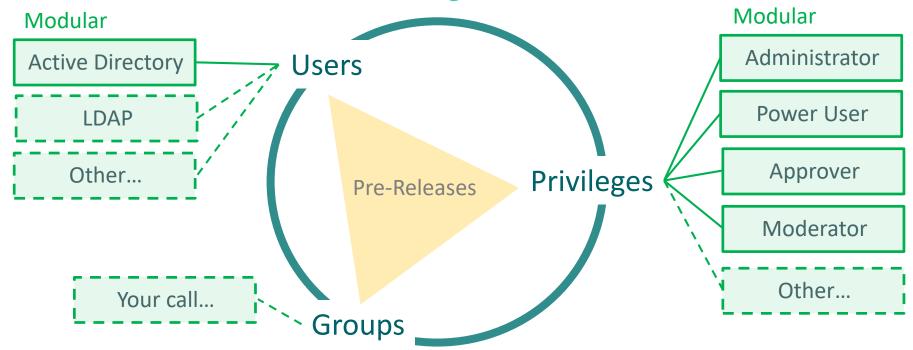








Access & Confidentiality Controls





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Are you interested in Access or Confidentiality Controls?



Yes, it is a requirement.

62%

Yes, but it is NOT a requirement.

31%

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No, thanks.





Version & Change Controls

Version: 1 Revision: 0		Reason: Scheduled Release
	Product: Consumer Price Index Change: Rounding fixed	
	Product: Consumer Price Index Change: Figure fixed	
Version: 2 Revision: 0		Reason: Emergency Release Change: Rounding fixed Change: Figure fixed



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Yes, it is a requirement.

68%

Yes, but it is NOT a requirement.

32%

No, thanks.

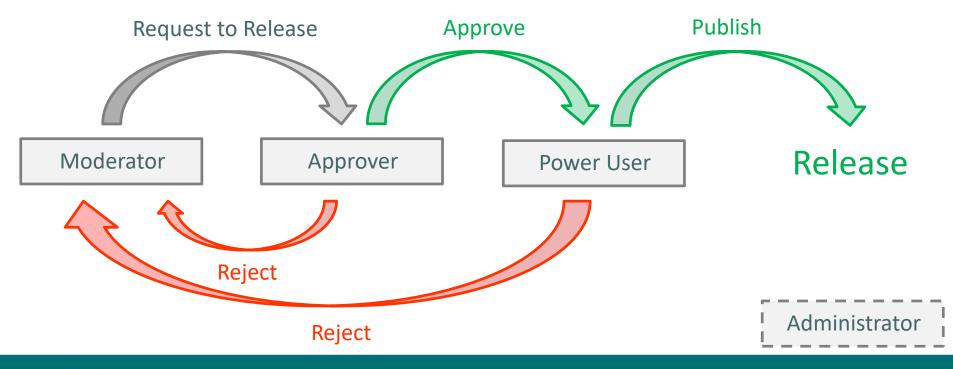


0%





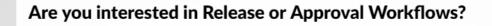
Release & Approval Workflows





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Yes, it is a requirement.

54%

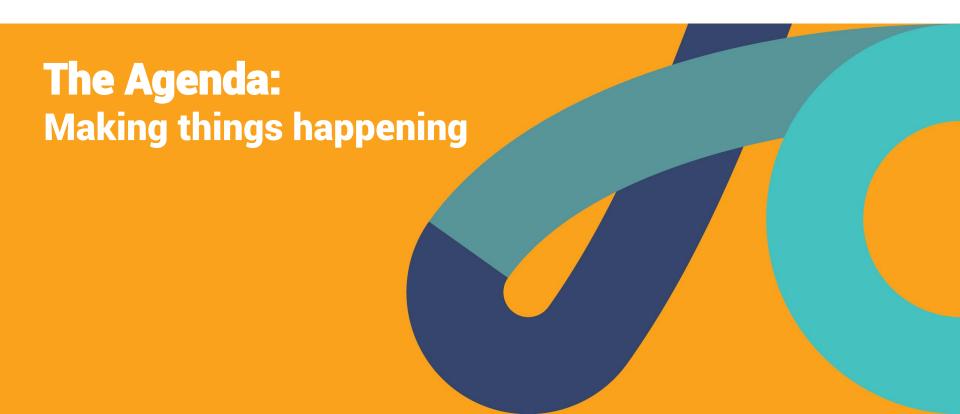
Yes, but it is NOT a requirement.

36%

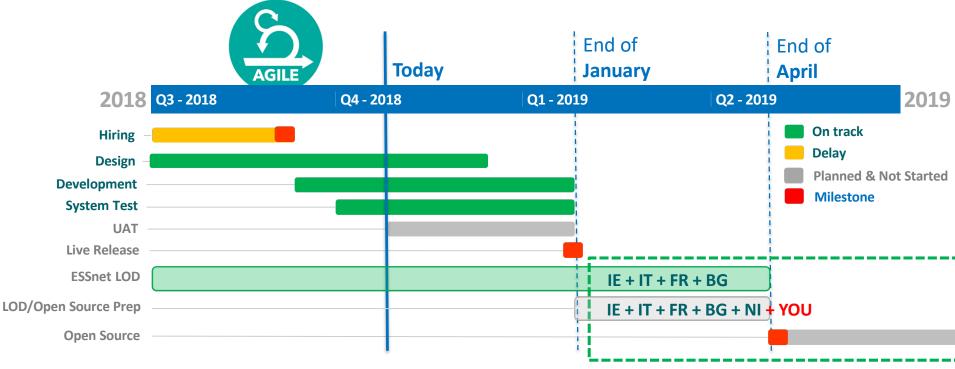
No, thanks.

10%











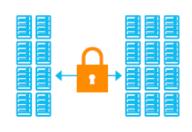






By Infrastructure

By Design





In-Transit

Transport Layer Security (TLS)

At-Rest

Transparent Database Encryption (TDE)



In-use

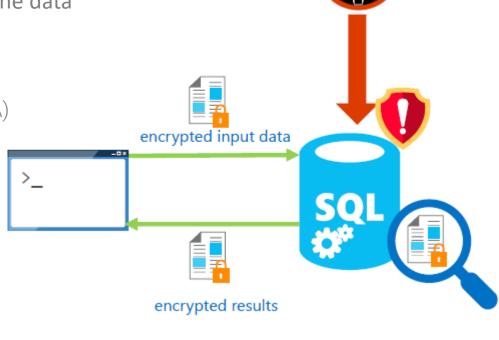
Always Encrypted (confidential computing)





Protecting data in use from:

- Malicious insiders (i.e. DBA)
- Rogue Admins
- Hackers and Malware
- Third party access
- Tampering







Ask, don't be shy

...and I won't bite ;-)

