

2024

PQView

2025

What's New and What's Next:
PQView Updates and Planned Features

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Electrotek Concepts

Agenda



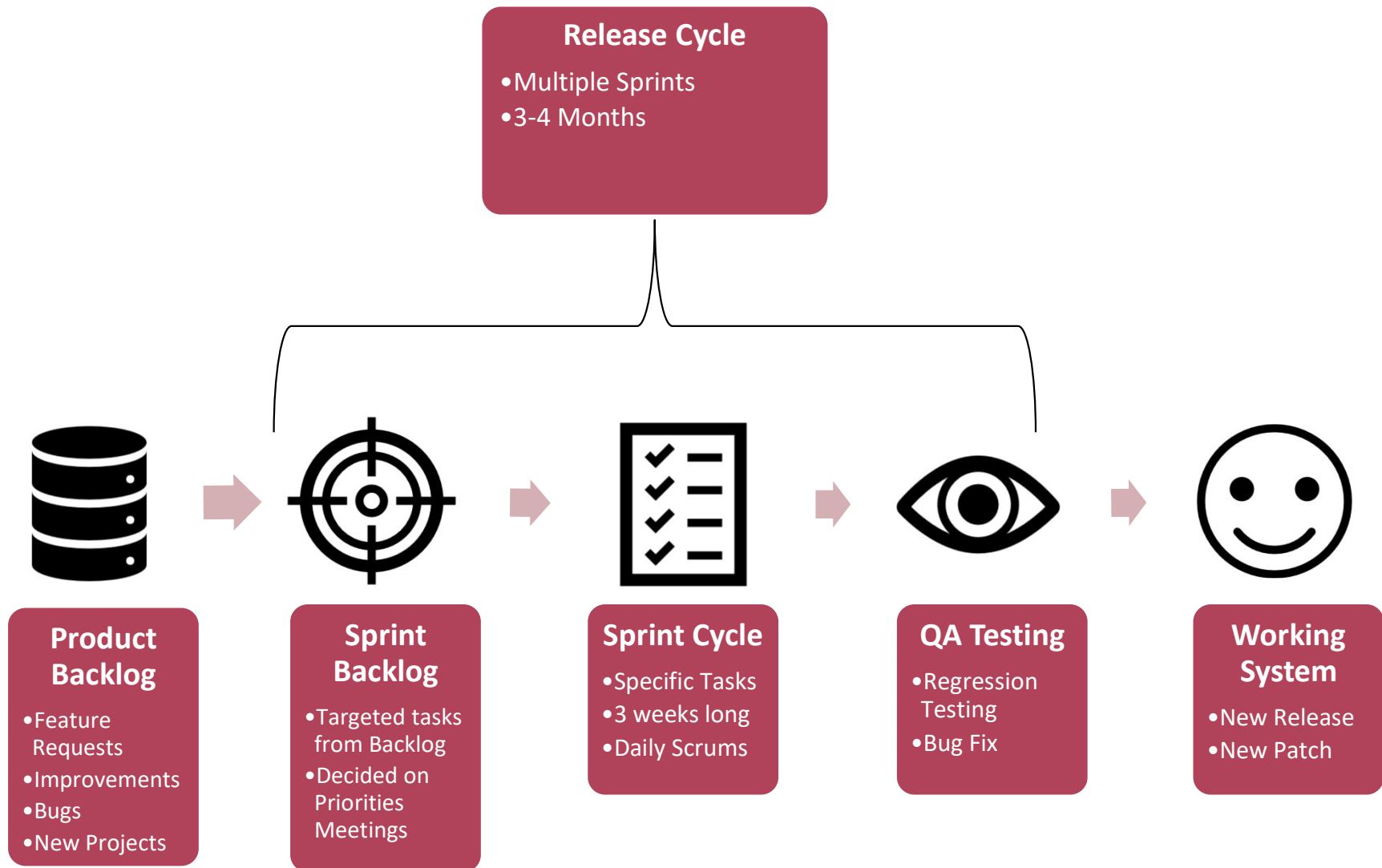
Review of 2023/24 Releases

- 4.23 Release
- 4.24 Release

Upcoming 4.25 Release

Future Features for
2025
And beyond!

PQView Development Process Summary



Recent Releases Summary

4.23 Release notes summary:

- 38 improvements & bug fixes
- 34 new features
- Detailed release notes:
<https://www.electrotek.com/pqview-4-23-is-now-available-to-download/>

4.24 Release notes summary:

- 62 improvements & bug fixes
- 51 new features
- Detailed release notes:
<https://www.electrotek.com/pqview-4-24-is-now-available-to-download/>

4.23 Release (highlights)

- **PQDR Configuration & Scheduler**
 - Ability to Configure & Schedule PQDR Reports
- **Data Log Threshold Event Detection**
 - Generate Data Log Transition Style Events as Data Log Values are Imported
- **Customizable PQWeb Tables Columns**
 - Example: Customize Setup->Monitors page
- **PQDR (S)FTP(S) PQDR Report Notification Implemented**
 - Ability to post file-based reports to FTP/FTPS/SFTP servers.
- **Database Usage Item Added to Status Page**
 - Displays the Percentage or Size of the Measurement Database Used
- **Administrator Service Documents Storage**
 - User Interface for Creating, Viewing and Editing JSON-Based Configuration Documents Implemented

4.24 Release (highlights)

- Added Statistical Channel viewing support in PQWeb Data Logs viewer.
- Support for Site Groups based site selection added to the PQDR Scheduler and PQWeb PQDR UI.
- Updated charting engines for both static and interactive charts.
- Multiple improvements to ION Protocol and SEL data handlers.
- Resolved an issue with Dranetz and SATEC meters that could result in a dead-lock and/or excessive error logging.
- Provided stopgap solution for systems larger than 1000 meters.
- PQDR Word reports Styling support
- Colombian SSPD & CREG reports implemented
- Added support for generic PQDIF over IEC61850 meter download
- Multiple SCADA and Feeder impedance model integration improvements

Reporting System Updates



PQWeb® 4 Home Analytics Real-Time System Help admin

PQDR Schedule 1 Database Selected

Report Filters Schedule Success Notifications Failure Notifications

Site Selection
Select Sites: Sites
Select Site Group: All Sites

Date Range
Date Range: From-To
Date From: 9/12/2024 4:48 pm
Date To: 9/12/2024 4:48 pm
N(number): 1

Report Selection
Report Type: EN50160 Word Document Report
Compliance Standard: Default
Report Output Name Template: Report Output Name Template
Separate Reports By: No Separation

Report Customization

Report Parameters

Parameters [Configure](#)
Select Steady State Parameters: 6 items selected
Events: 1 item selected
Harmonics: 2-25
Interval: Week
Value: 1

Component Properties
Multi-Interval Statistics: Aggregate

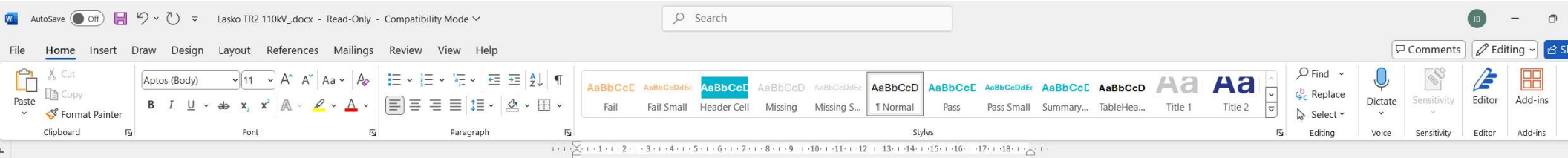
Report Components
Site Compliance Summary [+ Add Component](#)



Title Page [↑↓](#) [Remove](#)

Table Of Contents [↑↓](#) [Remove](#)

Site Compliance Summary [↑↓](#) [Remove](#)

Reporting System Updates




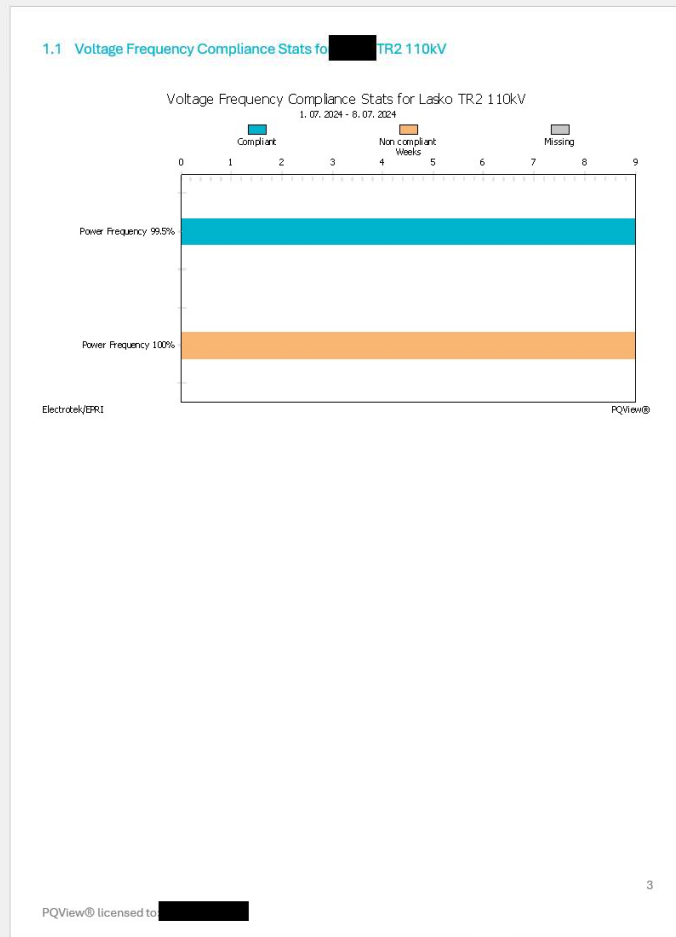
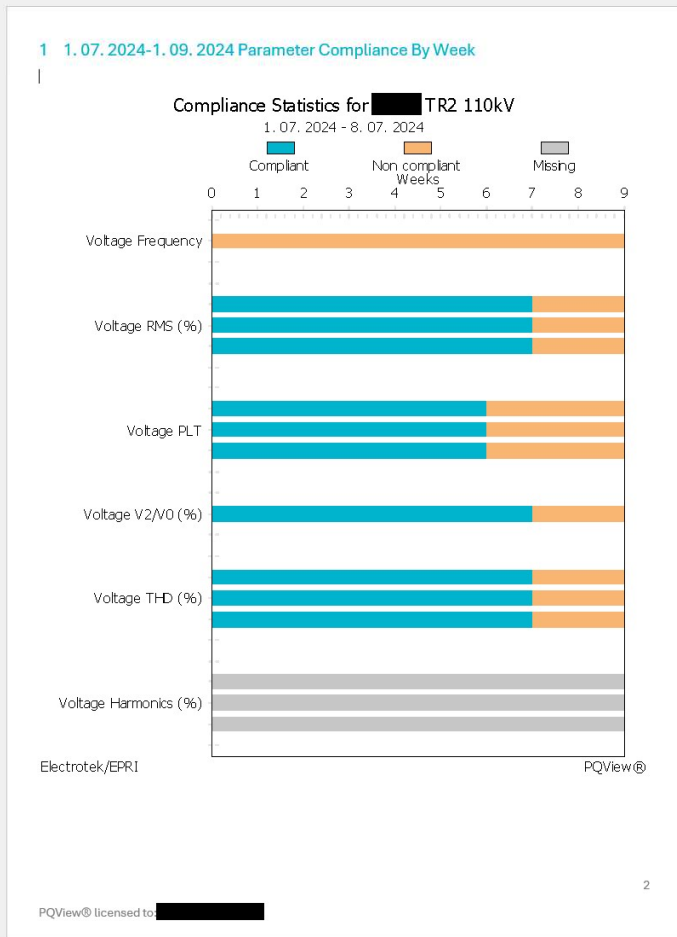
POWER QUALITY REPORT

TR2 110kV

1. 07. 2024 - 1. 09. 2024



Report Created: 12. 09. 2024 08:44:00
Report Configuration: New Schedule 2024-09-12 10:41:18
Compliance Standard: EN Std 50160-2022



Features coming in 2025



**Desktop App
(Phase II)**

**Configurable
Home Screen**

**Reporting
Features
Development**

**Multi-factor
Authentication**

**Cloud Based
PQView**

**Adding support
for more
languages**

Data Handlers coming in 2025



Espec Meters

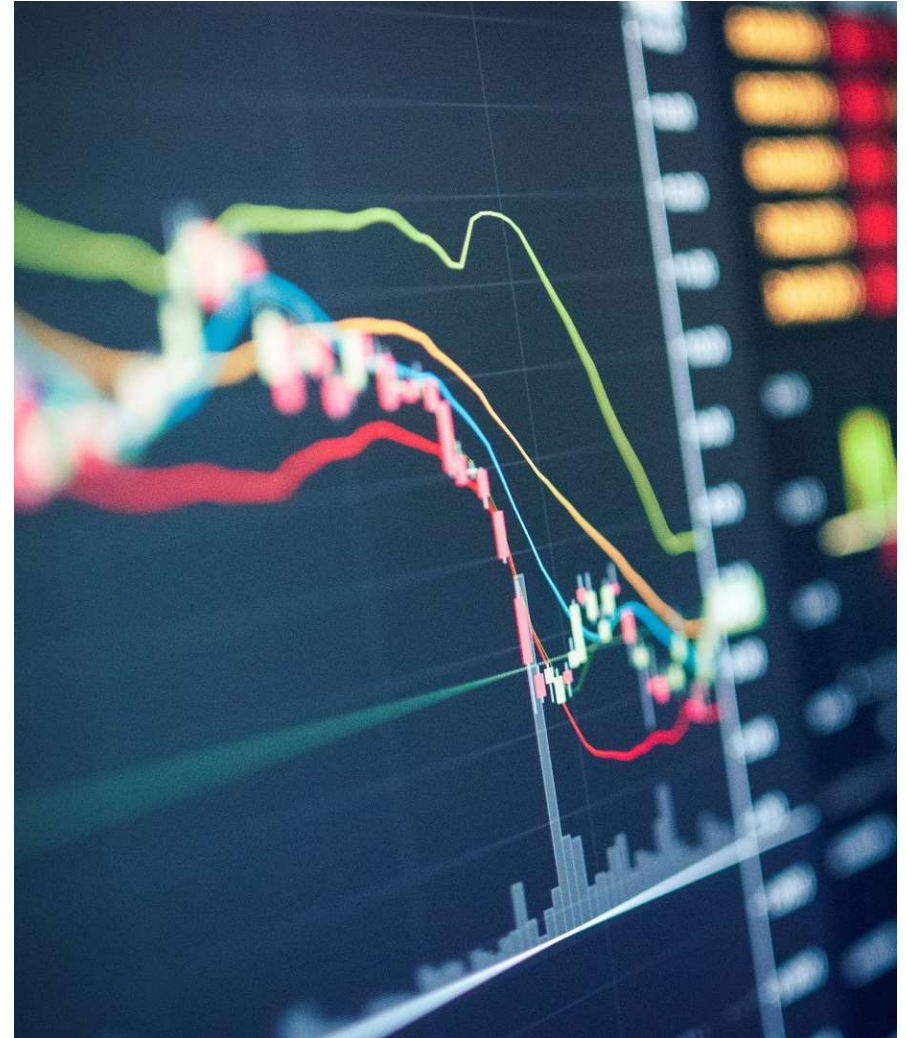
Janitza Meters

GE Meters

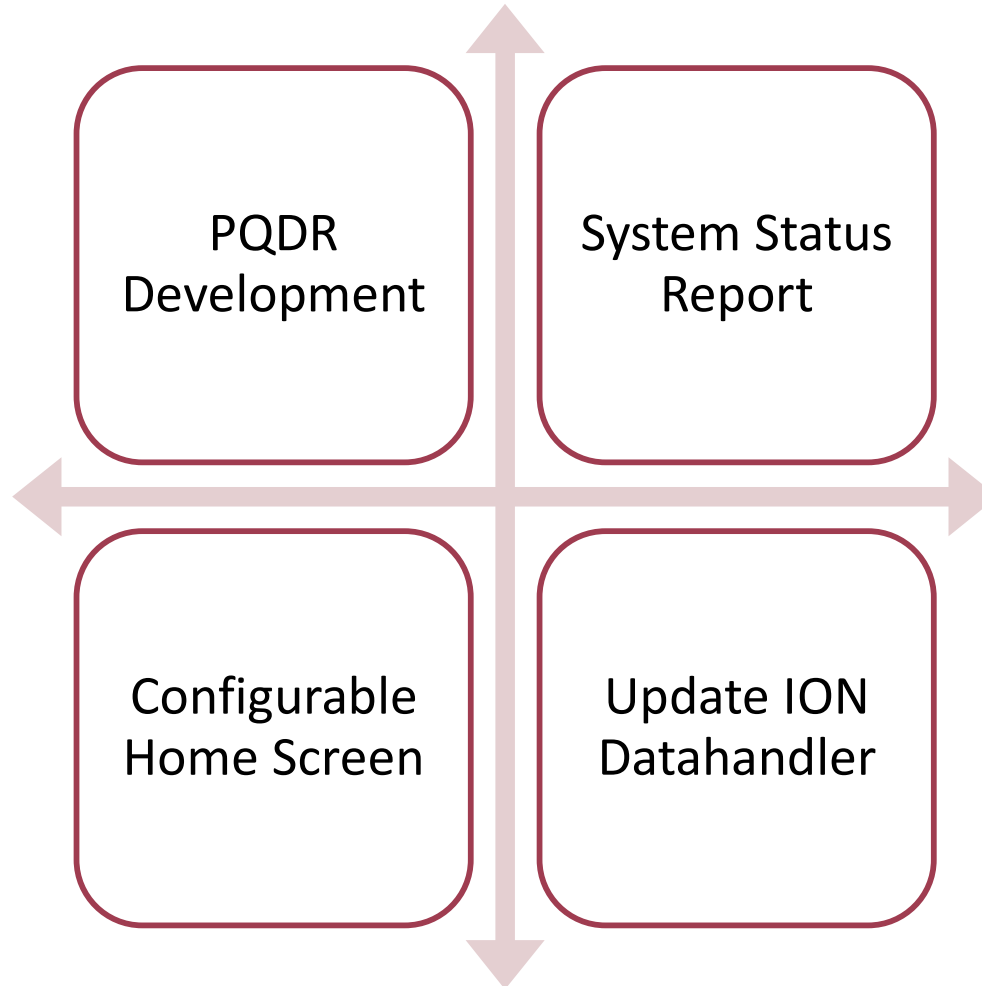
Unipower Meters

IEC61850 + PQDIF Meters

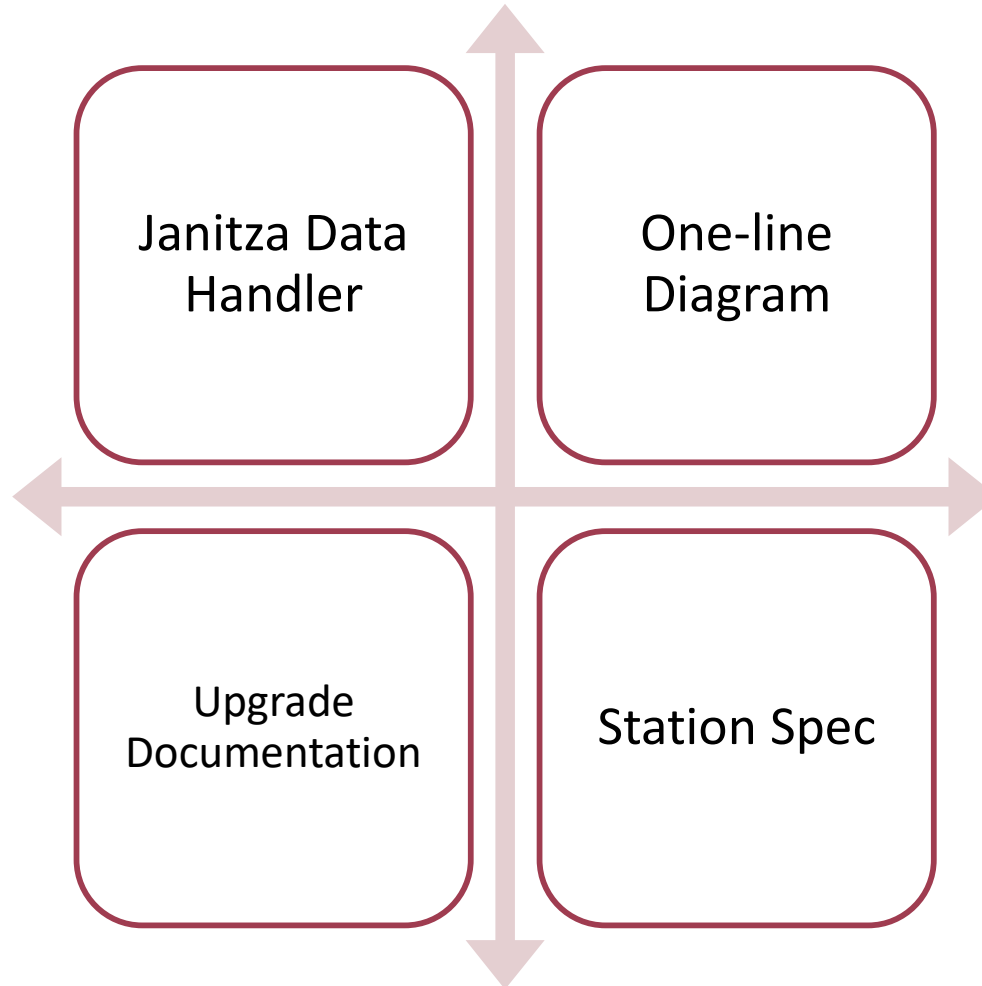
Other Meters as requested



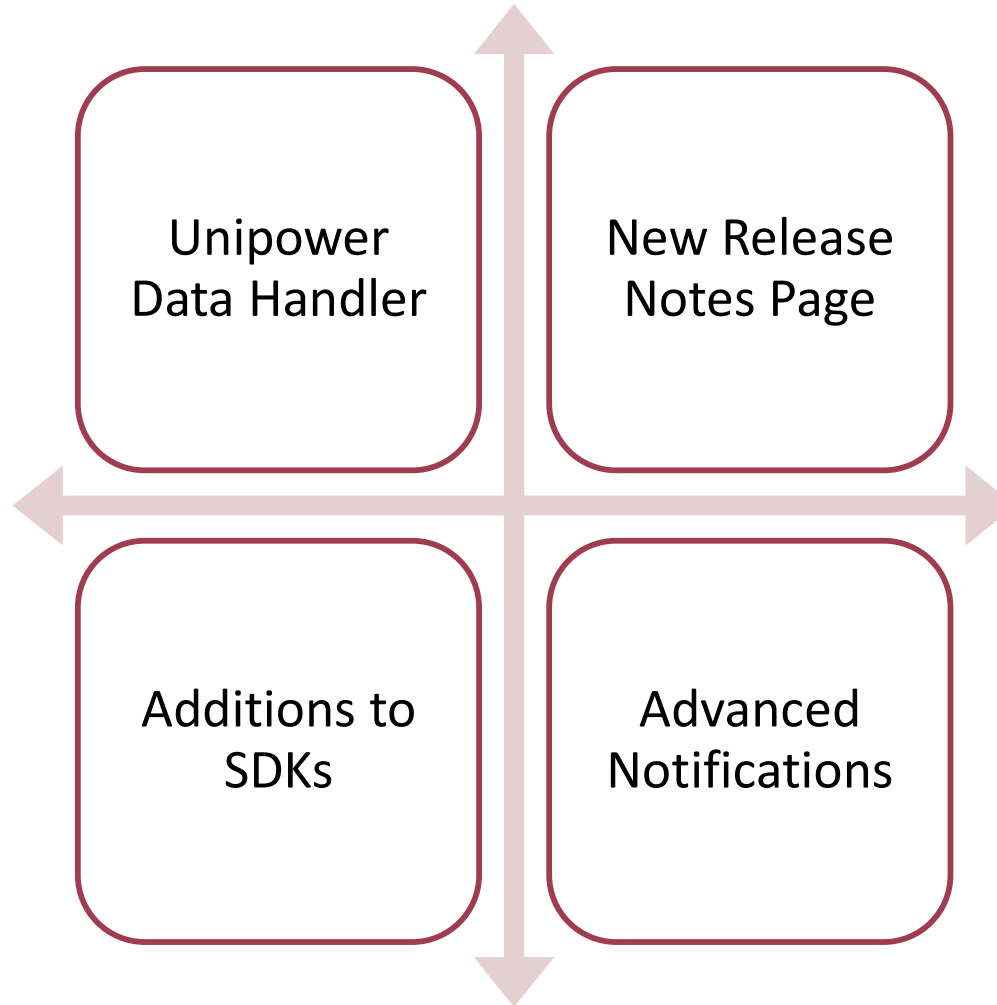
4.25 Release (Q4 2024)



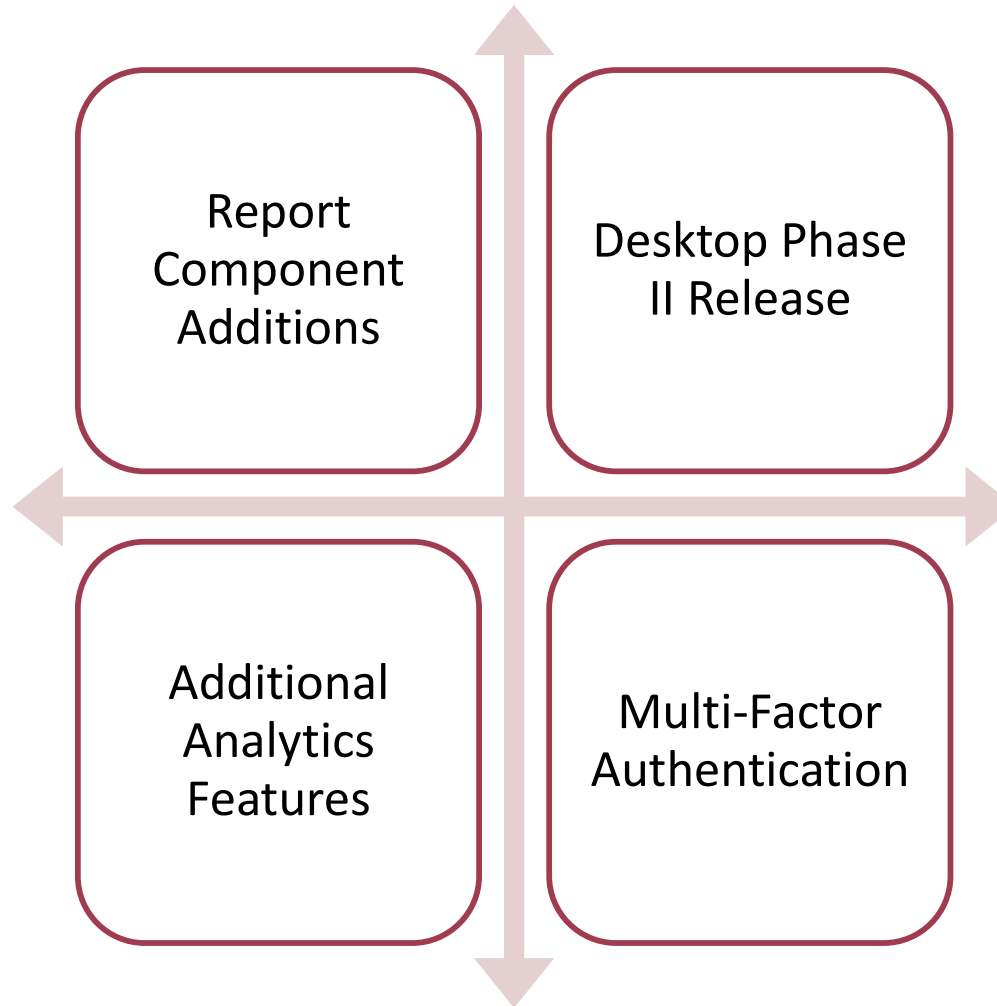
4.26 Release (Q1 2025)



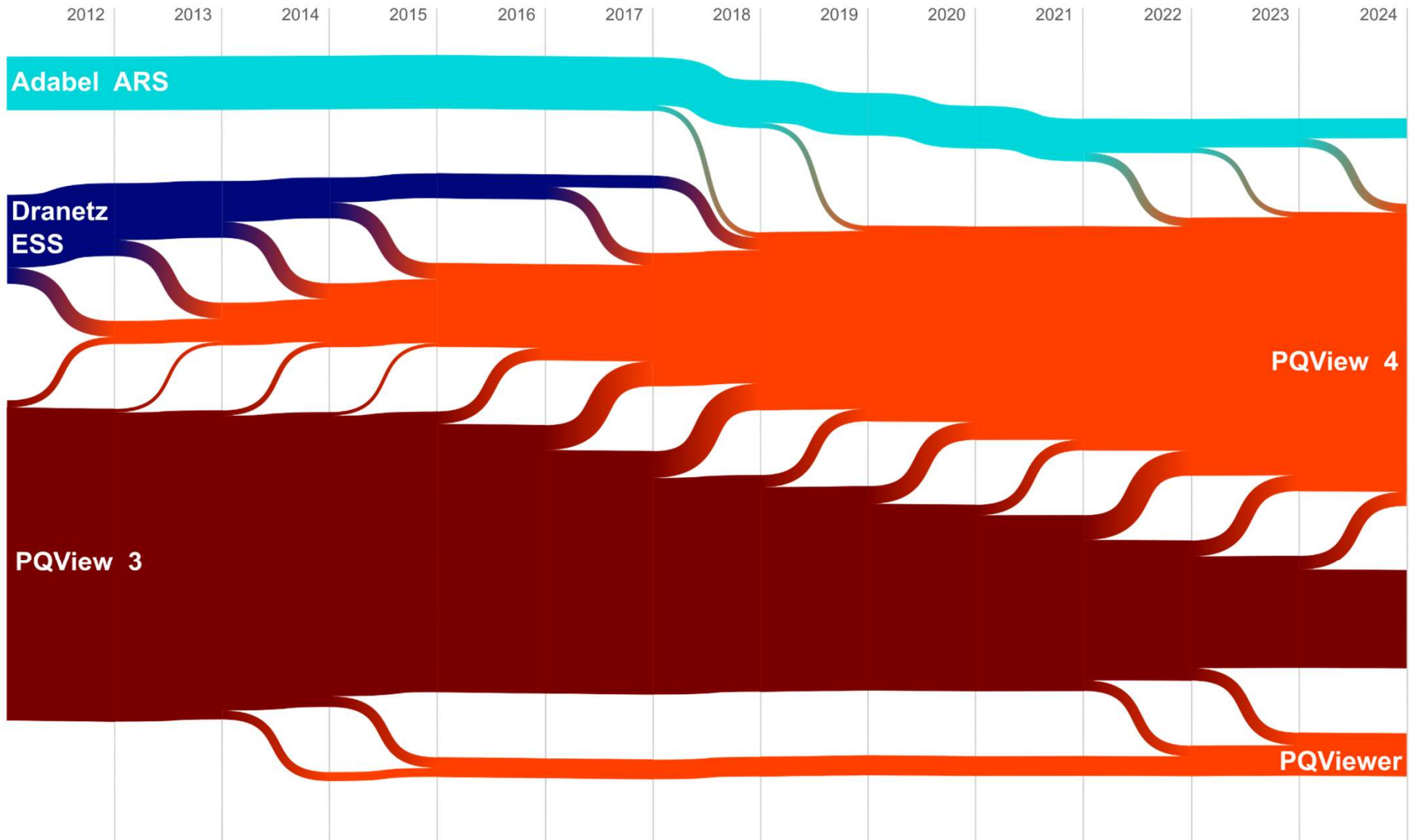
4.27 Release (Q3 2025)



4.28 Release (Q4 2025)



PQView3 phasing-out



Future Features



Integration with other Systems

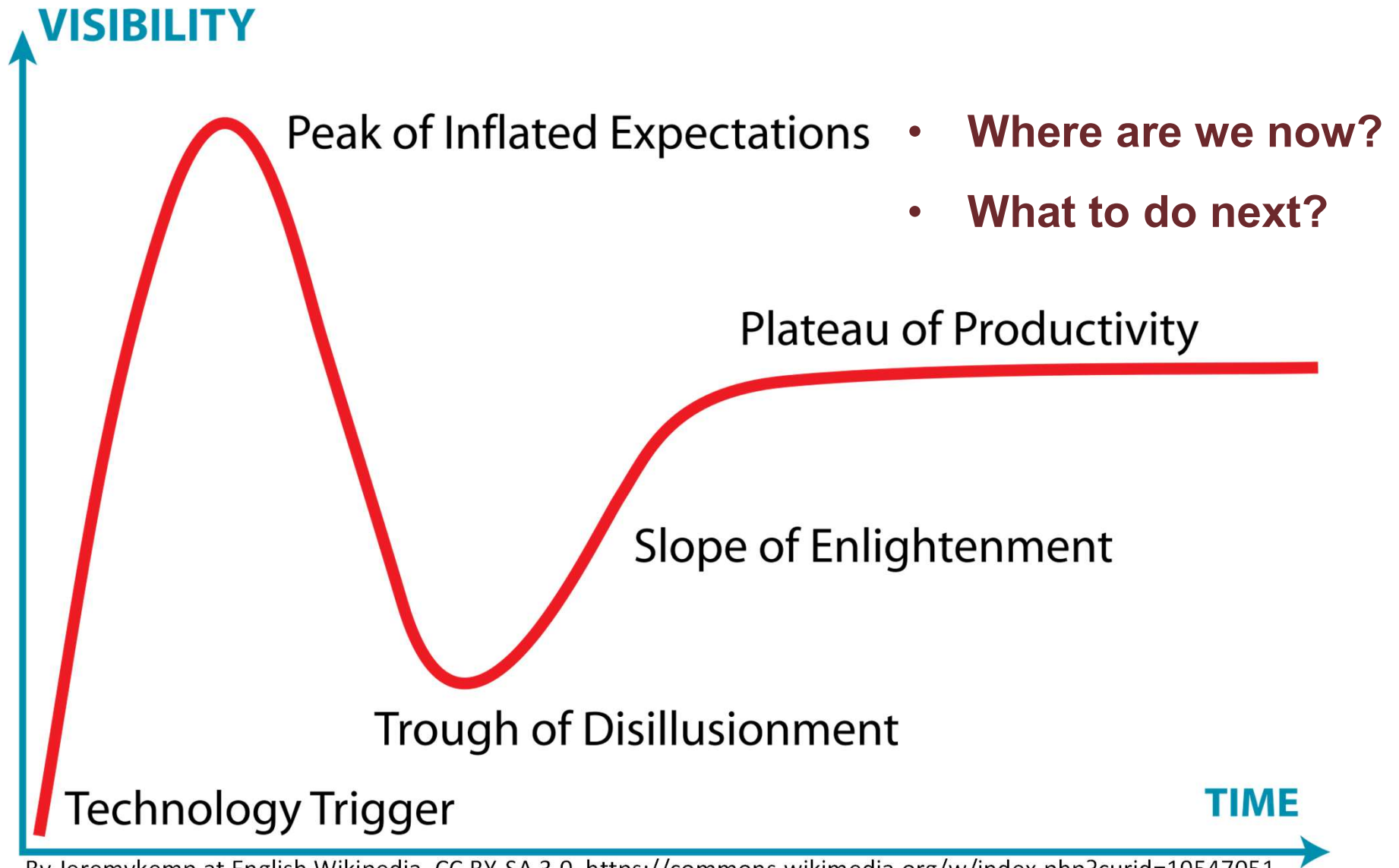
Proactive Maintenance (Fault Prediction)

Continuous platform modernization

Machine Learning Applications

Bingo!!!

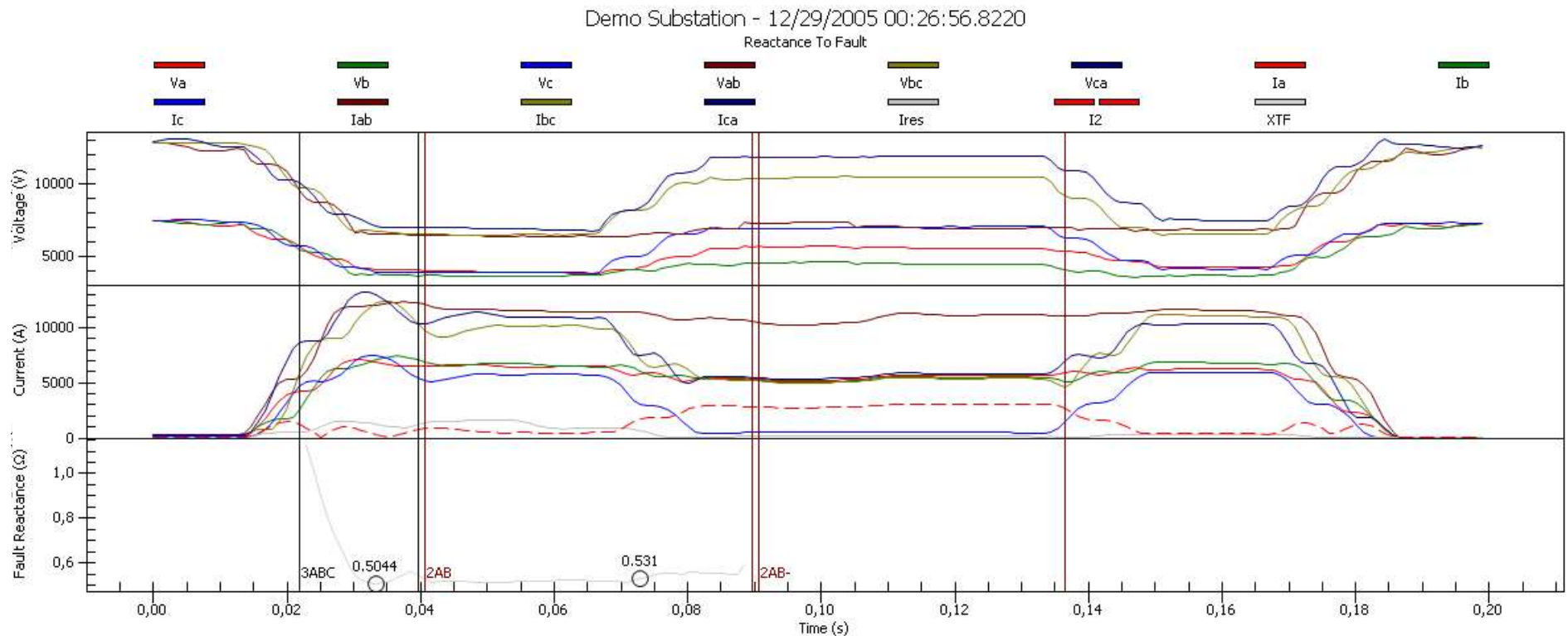
Gartner Hype Cycle & ML/DL/AI...



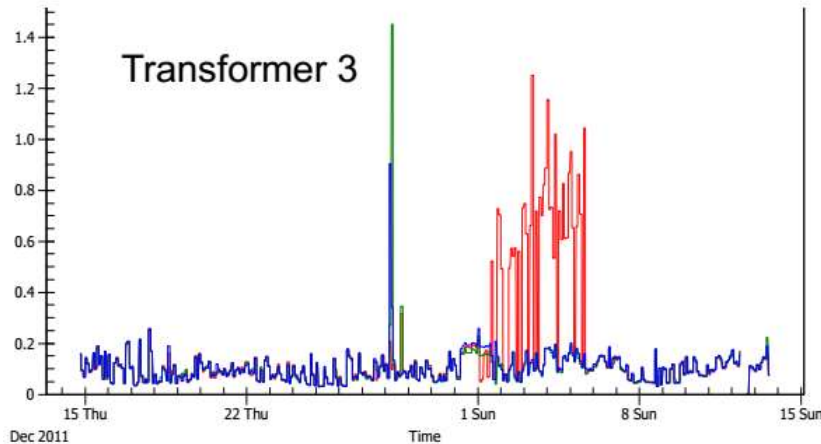
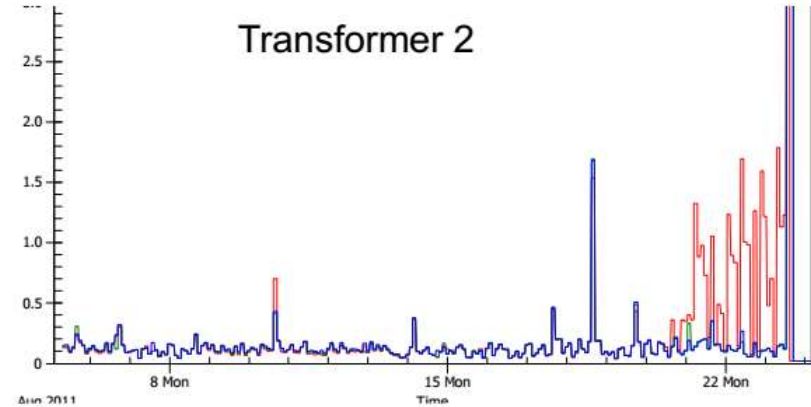
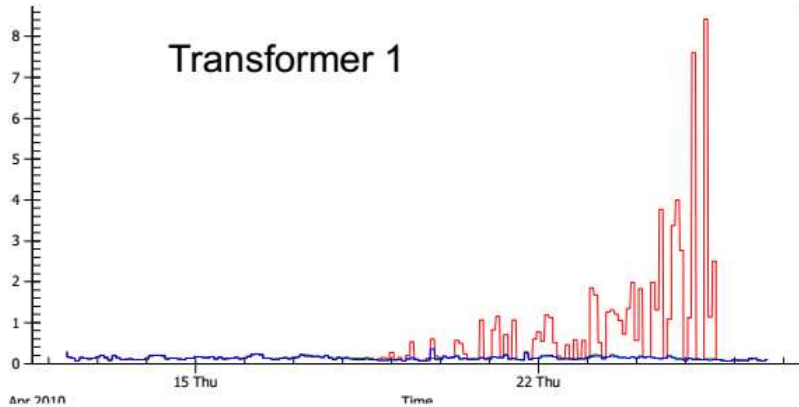
By Jeremykemp at English Wikipedia, CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=10547051>

ML Example: Event classification

- Is using ML with event classification worth doing?
- Can ML / AI help us with event detection?
- Where should we implement advanced detection schemes?



ML Example: Failure Prediction



Pst and Plt flicker indices identified the start of the serious damage to the tapchanger within hours on all three transformers.

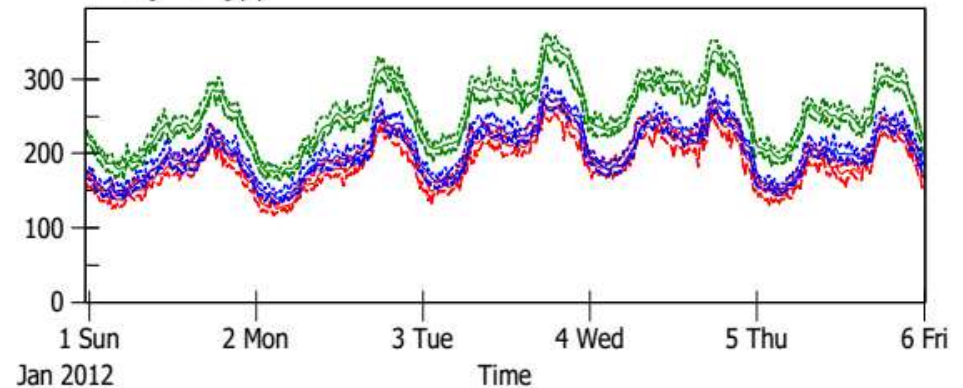
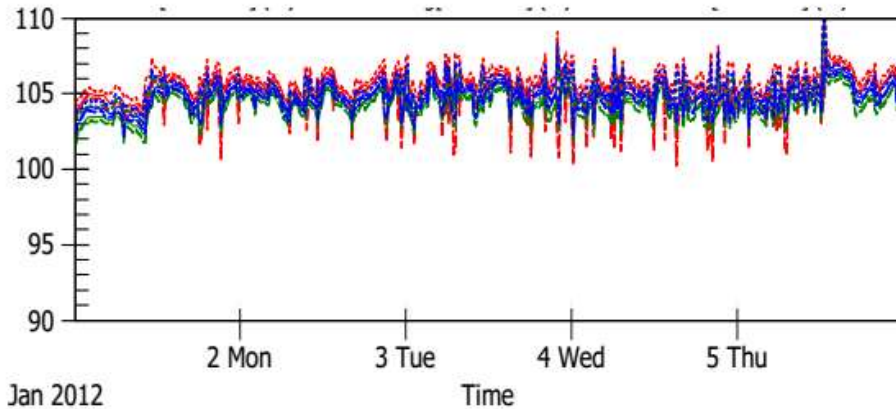
Gary MacLeod

Can we act faster based on „hidden” data features?

Example: Transformer Failure Prediction



Can we act faster based on „hidden” data features?



- **Yes, but...**
- **4 V concerns**
- **Modeling is far more complex than classification of events.**
- **Time resolution may be limiting factor**
- **„Normal” / baseline patterns can be misleading**
- **Feeder specific baseline differences**

Want things quicker?



Contact us and explain in detail the reason for the feature need

- More details, easier to understand, faster response

Feature gets priority if multiple customers are requesting it.

Customized features usually take longer to develop, less likely to move up the ladder quickly UNLESS...

Thank You for your attention!



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