

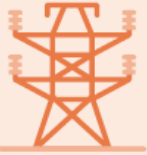
Network Vision: Customer-Led Design



**Rona Mitchell, Innovation Engineer
LCNI 2019**



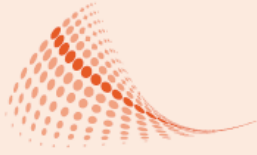
Hello, nice to meet you



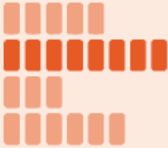
Energy distributed
79,491 GWh



Length of overhead network
45,854km



Length of underground network
142,154km



Distributed generation
9.07 GW



Peak Demand
15,784 MW

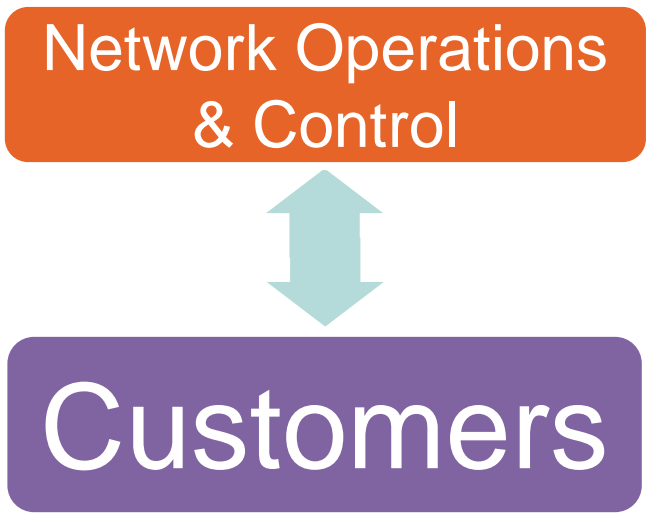


Number of people served
18 million

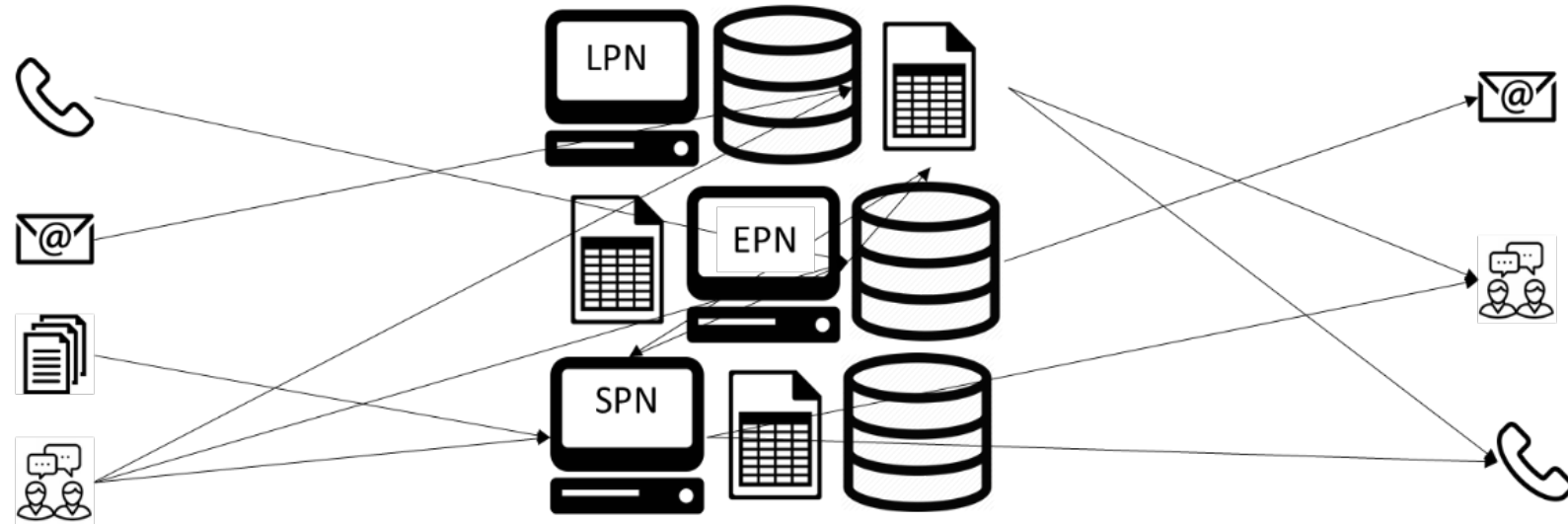


Purpose

- Context
- Network Vision project update
- Share lessons learned
- Q&A

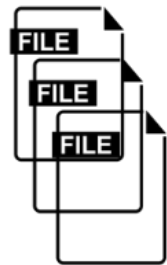


Before: multiple request methods, multiple tracking 'systems', multiple notification methods

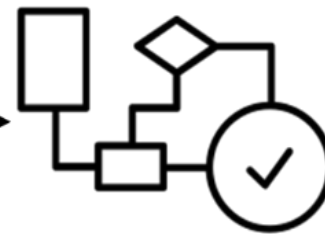


After: single OPTT

Automated loading



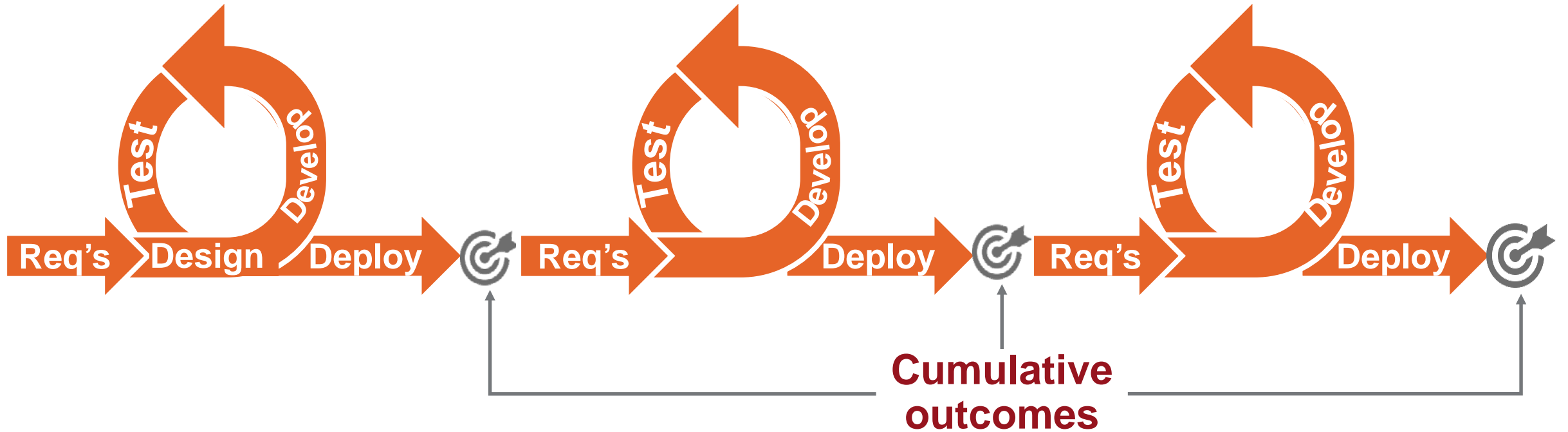
OPTT



Self-service portal



Scrum / Agile



Stakeholder Engagement – In Numbers

2

demos with
other networks

12

Stakeholder
Workshops

74

DER
Requirements

8.6

Customer
rating

Dashboard

Projects

Upcoming Outages

Historic Outages

Third Party Sites

Outage Control Module

Schedule



9
Current Outages



0
Outages Starting Today



0
Projects Starting Today

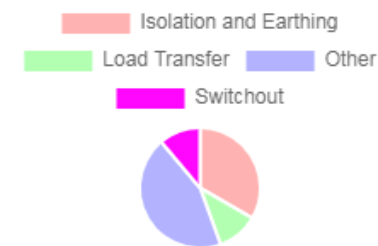


1
Ongoing Projects

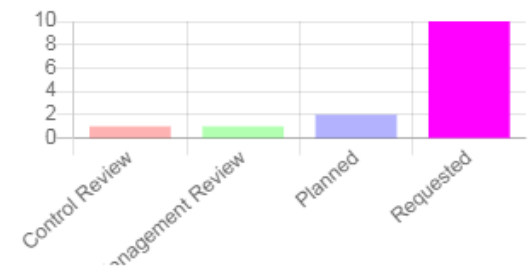
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

Outage 894. Substation: LAWFORD.
Work Description: Emergency works due to problem with gas network

Outages By Type



Outages By Planning Status



Request Outage

Project

Link to a Project?

Circuits

Region

Substation

Circuit



Filter

REGION	SUBSTATION	CIRCUIT	
EPN	LAWFORD	LAWFORD GD T1	
EPN	LAWFORD	LAWFORD BS160	

Work Description *

Start Date * Number of Days: 0 Week Type: Working End Date *

Start Time: 08:00

Planned Status *
Requested

Third Party Associations ²

Third Party : Green Family Factory
Site : Crisps Factory





















































Third Party : Green Family Factory
Site : Crisps Factory

SUBSTATION

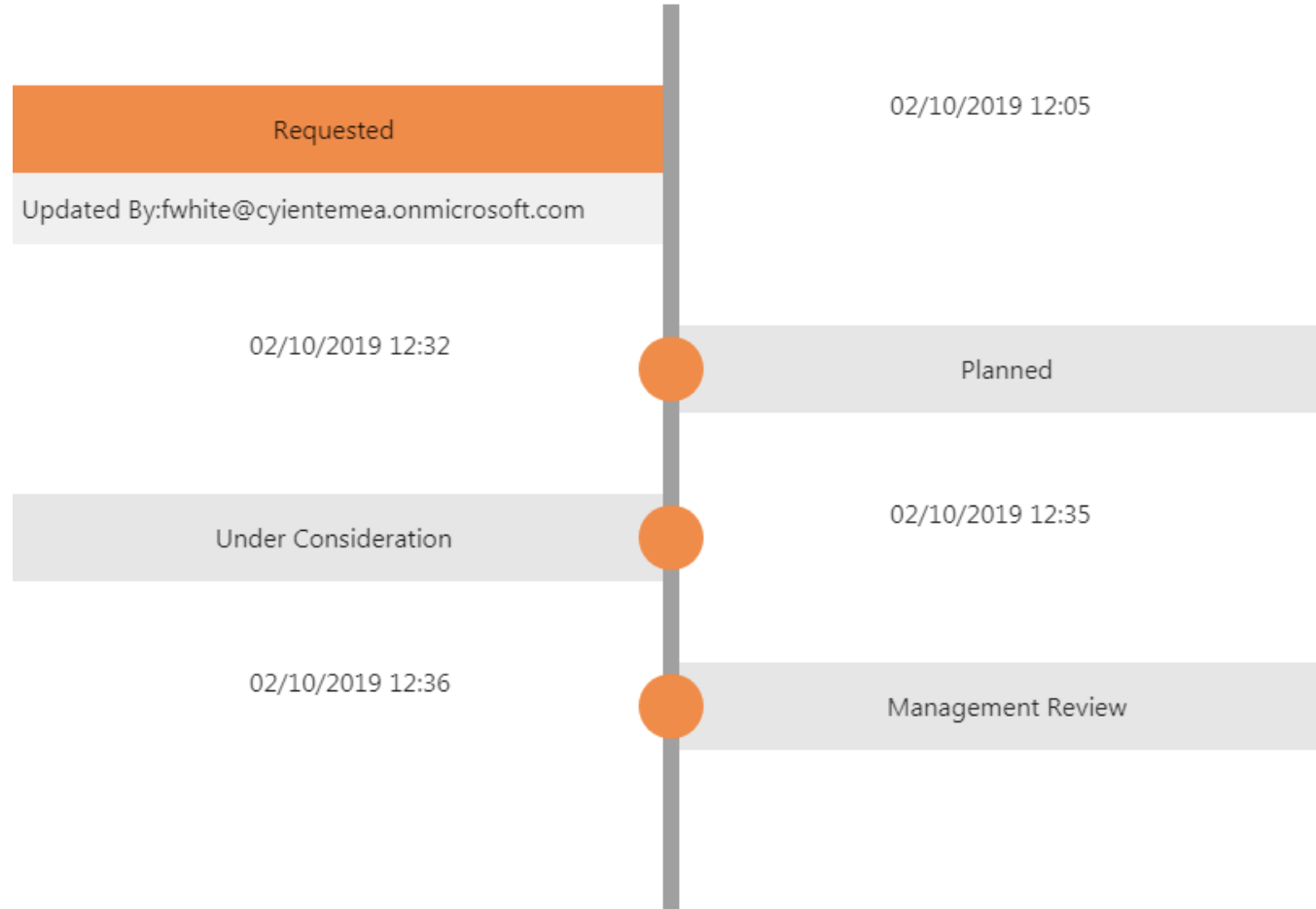
Filter 

Region  Outage Substation * Outage Circuit *

Start Date  End Date   nationalgrid

	OUTAGE ID <small>Filter</small>	PROJECT ID <small>Filter</small>	REGION <small>Filter</small>	SUBSTATION <small>Filter</small>	CIRCUIT <small>Filter</small>	STATUS <small>Filter</small>	START DATE <small>Filter</small>	END DATE <small>Filter</small>	START TIME <small>Filter</small>	END TIME <small>Filter</small>	WORK REQUIRED <small>Filter</small>	
	885	N/A	SPN	EASTBOURNE GRID	BUSBAR 2	Requested	16/01/2020	11/05/2020	10:00	18:00	Another test	   
	883	N/A	SPN	GODDARDS GREEN	BOLNEY 2	Requested	13/02/2020	22/04/2020	10:00	18:00	Another test	   
	884	N/A	SPN	EASTBOURNE GRID	BUS-SECTION 1-2	Requested	05/12/2019	06/02/2020			Just for testing	   
	834	N/A	EPN	COLCHESTER	COLCHESTER GD 33KV	Requested	07/09/2008	31/12/2019	10:00	18:00	FAULT: AT COLCHESTER ...	   
	882	N/A	SPN	GOUDHURST 33KV	PEMBURY GRID TEE PAD...	Planned	28/09/2019	19/12/2019			Just an outage for testing p...	   
	807	150	SPN	LEWES	EASTBOURNE/POLEGAT...	Control Review	22/08/2019	22/11/2019	10:00	18:00	Lewes- Broken Insulator at ...	   
	887	N/A	SPN	BUXTED 33KV	T1 TRANSFORMER	Management Review	23/10/2019	21/11/2019			A testing outage	    
	881	N/A	SPN	MAIDSTONE GRID 132KV	BURH/NFLE 2	Requested	01/10/2019	21/11/2019	10:00	18:00	For testing purposes	   
	886	N/A	SPN	BUXTED 33KV	T1 TRANSFORMER	Planned	17/10/2019	31/10/2019			Just a test outage	    
	889	N/A	EPN	COLCHESTER	COLCHESTER GD 33KV	Requested	09/10/2019	22/10/2019	10:00	18:00	FAULT: AT COLCHESTER ...	   

Outage 887



Close

The Final Word

Network Vision will:

- Simplify outage scheduling
- Improve transparency
- Reduce outages



Questions?

Rona.Mitchell@ukpowernetworks.co.uk

