Streamlining Quality and Safety Workflows and Reporting with Survey123 and ArcGIS Dashboards



### Agenda

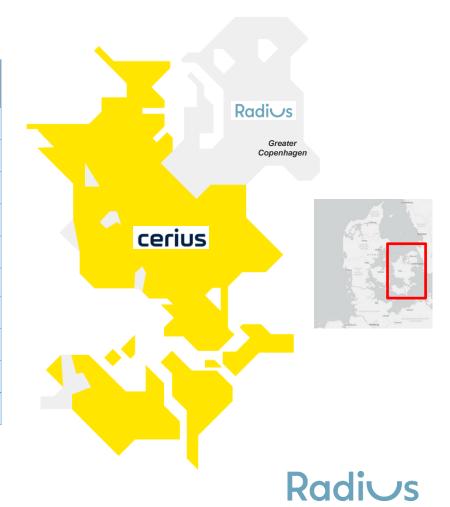
- About Us
- Project Background Information
- Streamlined Workflow and Efficient User Experience
- Building Smart Surveys with Live Calculations
- Disseminating Information Across the Organization
- Delivering Relevant Content
- Quality and Safety Esri Solution Stack
- Project Benefits





### About Us

	Radios	cerius		
Main Stations	92	116		
30 og 50 kV km-net	719	1,048		
Cable	627	178		
Overhead Lines	92	870		
Net Stations	10,568	10,325		
Automated	506	74		
10 kV km-net	6,830	9,483		
0,4 kV km-net – in all	11,340	14,000		
Cabinets	145,437	151,541		
Customers	1,083,549	400,121		



<sup>\*</sup> Information from 2019

#### **Project Background Information**



#### **March 2019**



#### Safety Criteria

NO = FAIL

YES = PASS

NOT RELEVANT

#### March 2021



**WENT LIVE in June 2021** 

#### **Quality and Safety**

14 Individual Surveys

Calculation – Total NO

Calculation – Total YES

Calculation – Total NO for each question

Calculation – Total YES for each question

One Survey - select from list of 14 Surveys with respective Questions

**Quality and Safety** 

Calculation – Total NO

Calculation – Total YES

Calculation – Total NO for each question

Calculation – Total YES for each question

Calculation – All NO

Calculation – All YES

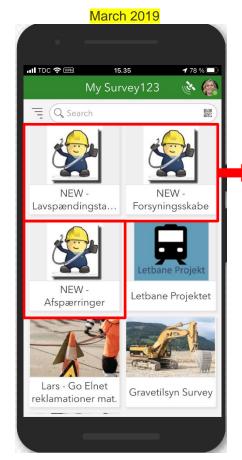
 All 14 individual Feature Layers from surveys are added into one Map and multiple Dashboards

 One Feature Layer from survey is added into one Map and multiple **Dashboards** 



### Streamlined Workflow and Efficient User Experience













### Building Smart Surveys with Live Calculations



#### **Choices Tab**

list_name	name	label
answer1	2	Ja
answer1	1	Nej
answer1	0	Ikke relevant

type	name	label hint	calculation	constraint	constraint_message	relevant	bind::type	bind::esri:fieldType
begin group	begin_mont3050	<b>30/50 kV Montage</b>				selected(\${survey_navn},	, 'mont3050')	
text	mont3050_muffenr	<b>30/50 kV Montage - Muffe nummer</b>						
select_one answer1	mont3050_q1	 b>Er krydskobling monteret ko <i>Venligst vælg ét svar.</i>	<					esriFieldTypeInteger
select_one answer1	mont3050_q2	   	<					esriFieldTypeInteger
hidden	mont3050_totalnej	mont3050_totalnej	if(\${mont3050_q1}='1',1,	0) + if(\${mont3050_q2}='1'	,1,0)		int	esriFieldTypeInteger
hidden	mont3050_totalja	mont3050_totalja	if(\${mont3050_q1}='2',1,	0) + if(\${mont3050_q2}='2'	,1,0)		int	esriFieldTypeInteger
calculate	mont3050_totalja_nej	mont3050_totalja_nej	\${mont3050_totalja}+\${n	nont3050_totalnej}				esriFieldTypeInteger
calculate	mont3050_percent_fejl	mont3050_percent_fejl	\${mont3050_totalnej}div	/\${mont3050_totalja_nej}*	100			esriFieldTypeInteger
calculate	mont3050_q1_nej	mont3050_q1_nej	if(\${mont3050_q1}=1,1,0	))				esriFieldTypeInteger
calculate	mont3050_q2_nej	mont3050_q2_nej	if(\${mont3050_q2}=1,1,0	))				esriFieldTypeInteger
calculate	mont3050_q1_ja	mont3050_q1_ja	if(\${mont3050_q1}=2,1,0	))				esriFieldTypeInteger
calculate	mont3050_q2_ja	mont3050_q2_ja	if(\${mont3050_q2}=2,1,0	))				esriFieldTypeInteger
end group	end_mont3050	end_mont3050						



## Disseminating Information Across the Organization





#### **Detailed Survey Information**



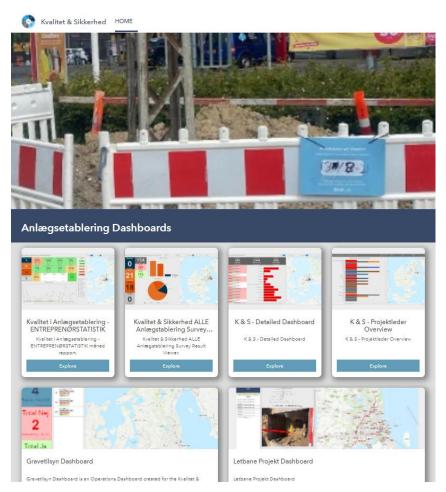






### Delivering Relevant Content – Internal Site

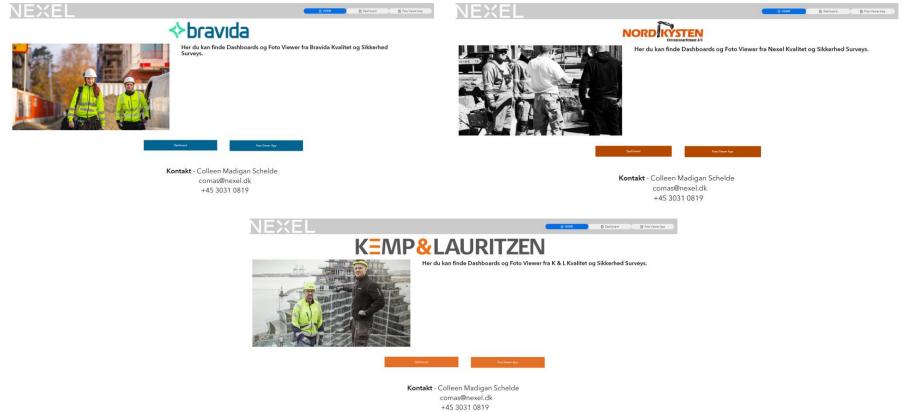






#### Delivering Relevant Content - Sites for External Contractors

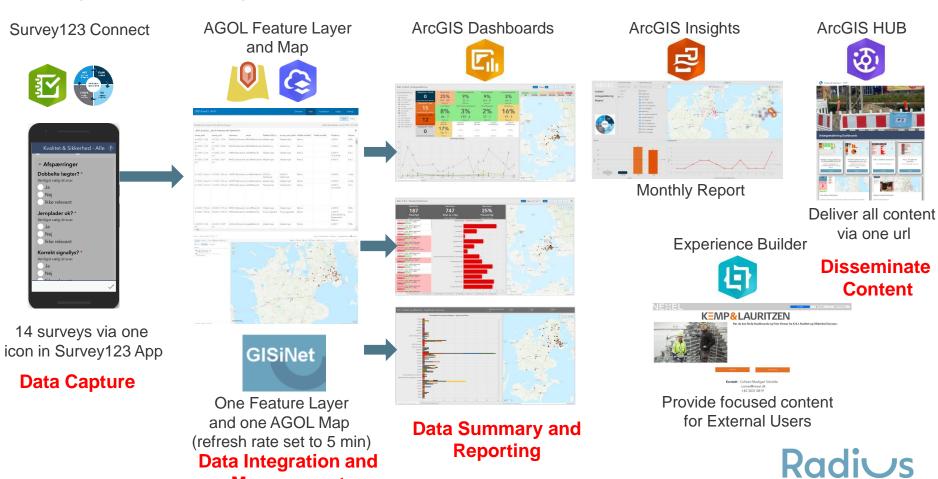






## Quality and Safety Esri Solution Stack

Management



#### **Project Benefits**

- Efficient User Experience
- Streamlined Workflow



- Live calculations coming from survey to Feature Layer
- Improved backend data management representing a Single Source of Truth
- Integrate with existing Electric Grid and Project GIS Data
- Deliver all relevant content via one URL with HUB Site
- Provide focused content to External Users with Experience Builder
- Streamlined from start to finish where the systems do all the work (data capture, summary, reporting and content delivery)



# Contact

Colleen Madigan Schelde comas@nexel.dk

