IT/OT Convergence In The New Network Model

Enabling operational excellence for the world's top utilities

Presented By: Thiago Carvalho International Regional Manager

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Schneider Electric, the global specialist in energy management and automation We empower utilities for a bright, connected future

~€27 bn

FY 2016 revenues

~20%

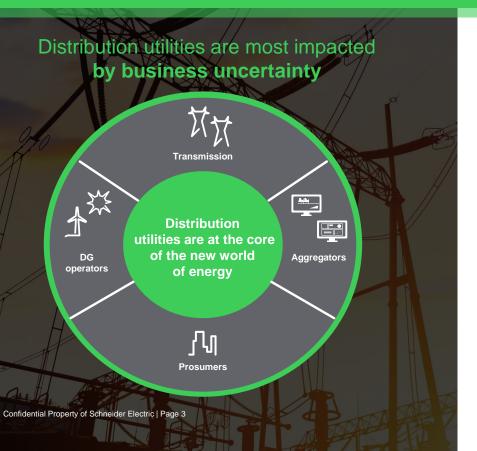
GIS Revenues devoted to R&D

people in 100+ countries



Power industry is facing an unprecedented change

By 2025, the traditional centralized model will be complemented by a world of distributed energy



New revenue model:

- Impact of self-consumption
- Redefined investment strategies, value- and risk-based

Cost increase:

- Network reinforcement costs driven by distributed renewables and soon EVs
- Complexity in network operations, need for more observability

Digitization:

- Data proliferation
- Security threats

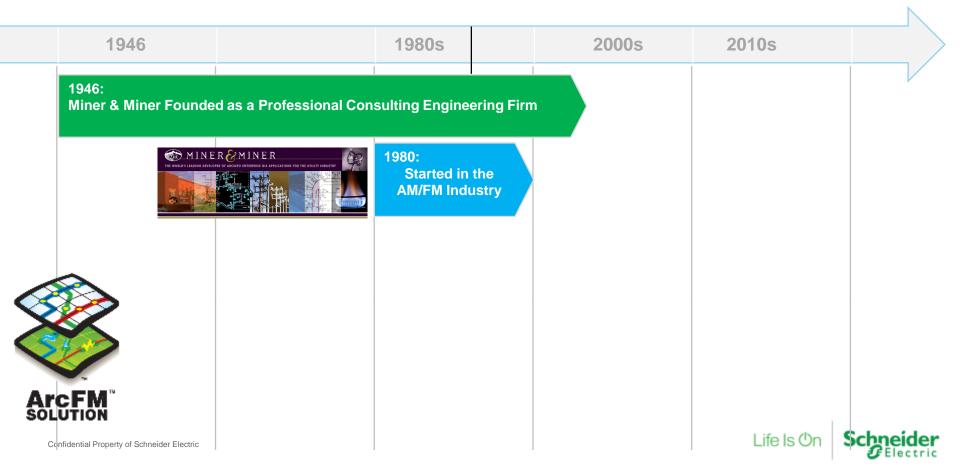


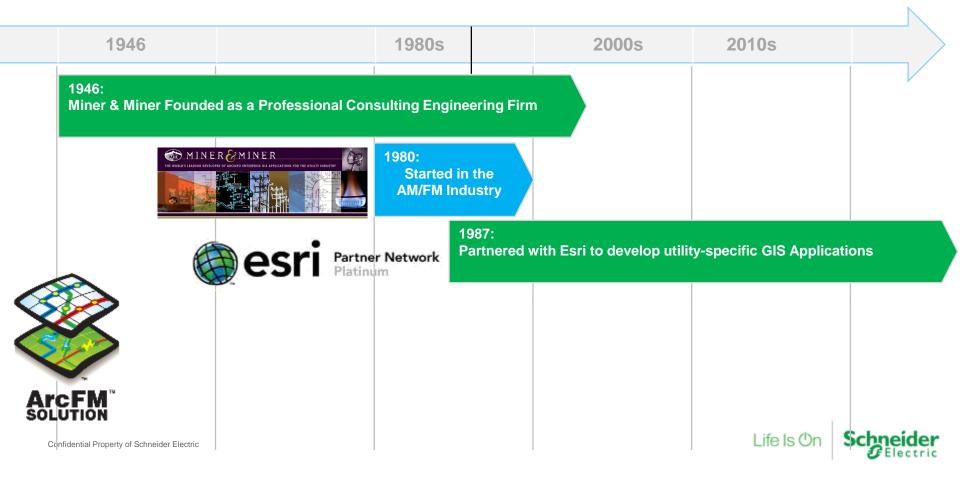


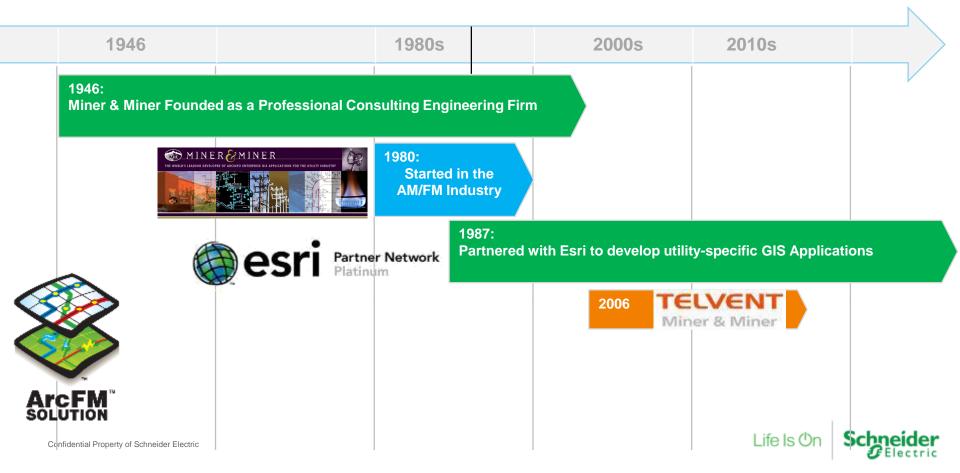


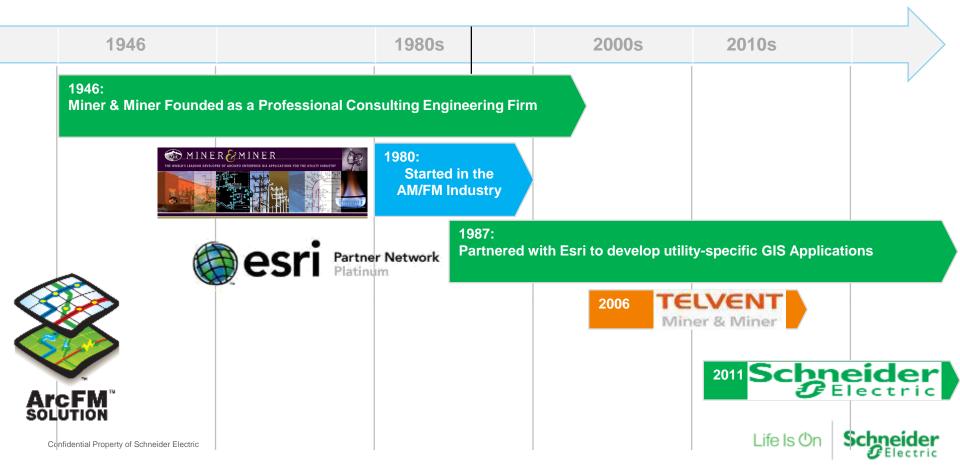
Utilities Geospatial Business

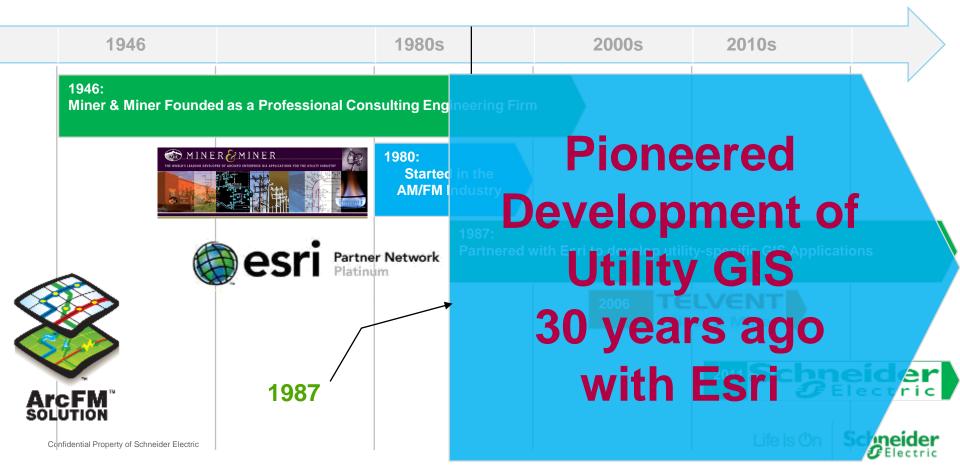
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Connected and engaged at the highest levels

Esri Partner Advisory Council member – business and strategy Esri CTO Advisory Council member – technology and R&D





ArcFM is used at >500 utilities worldwide 36 with > 1 million meters

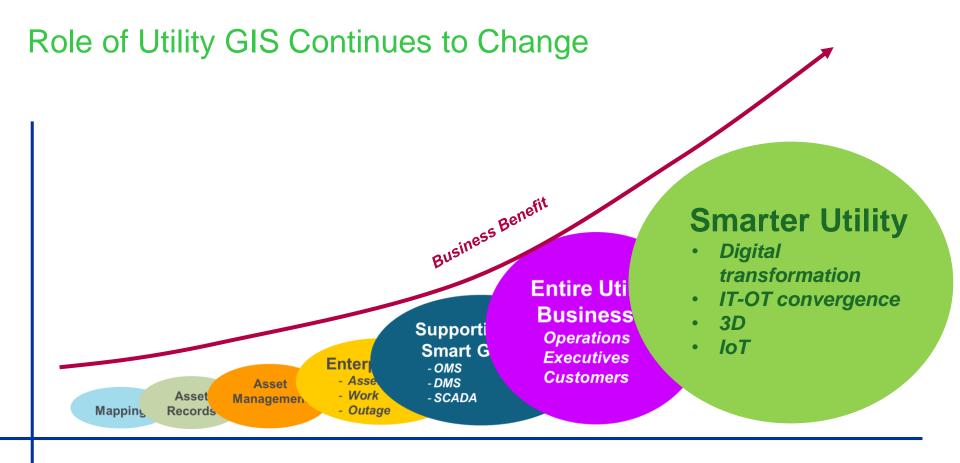
3 of the 10

Largest

Utilities in

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the World) PSEG **Reli** هيئة فبناه وكهرباء أبوظيم w Dhabi Water & Electricity Authorit PRSE QUESTAR OURBA'L Sempra Energy **Consumers Energy** ominion Pepco Holdings, Inc Water and Power الشركة السعودية للكهرباء DTE Energy Saudi Electricity Company **M**Source hydro ENERGA SOUTHERN. EnBW COMPAN aps **IBERDROLA** ČEZ CenterPoint. Energy The Energy People



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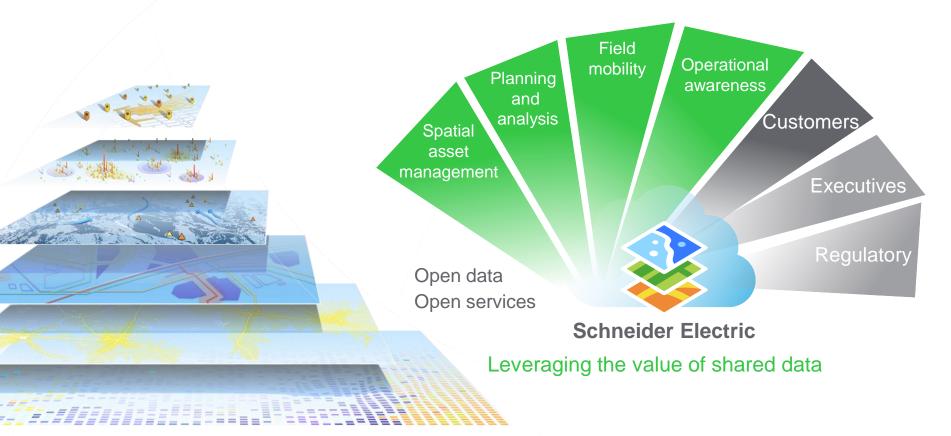
ArcFM Solution Offering



iii iii

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Schneider Electric Solutions for Utilities



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ArcFM Solution 10.2.1 Series

Commitment to the Utility and Telecom releases

Supported through 2021

Yearly updates of ArcFM 10.2.1x:

- Focused enhancements
- Stability and performance improvements
- Third party certifications
- UTUP

6th Generation 10.2.1

10.2.1x Product Line Update

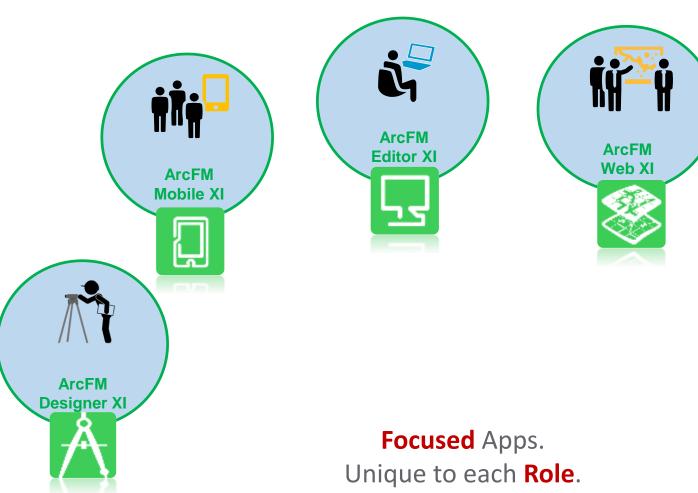
- 10.2.1 February, 2014
- 10.2.1a August, 2014
- 10.2.1b June, 2015
- 10.2.1c May, 2016
- 10.2.1d May, 2017
- 10.2.1e Summer 2018



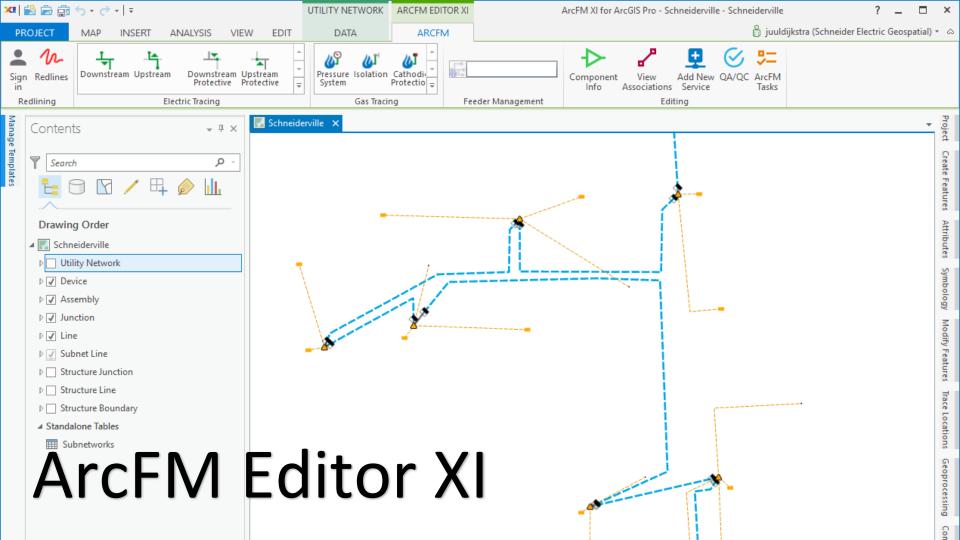


- >What happens after 10.2.1?
- >Our Goals:
 - >Take advantage of ArcGIS Pro, Utility Network, Identity and Web-GIS
 - >Provide an upgrade path from 10.2.1x
 - >Collectively improve the design, construction, as-built process
 - >More flexibility with mobile technologies

Keeping your data accurate and timely

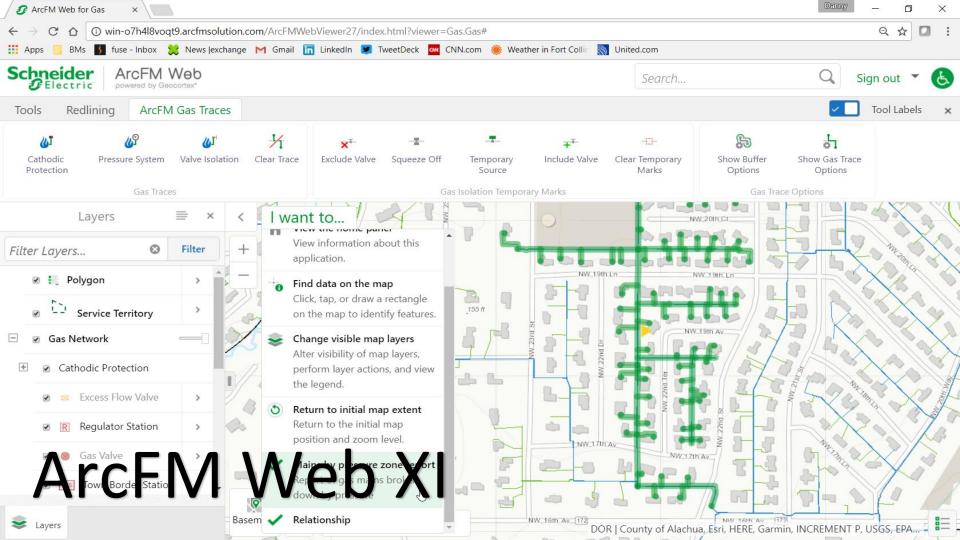


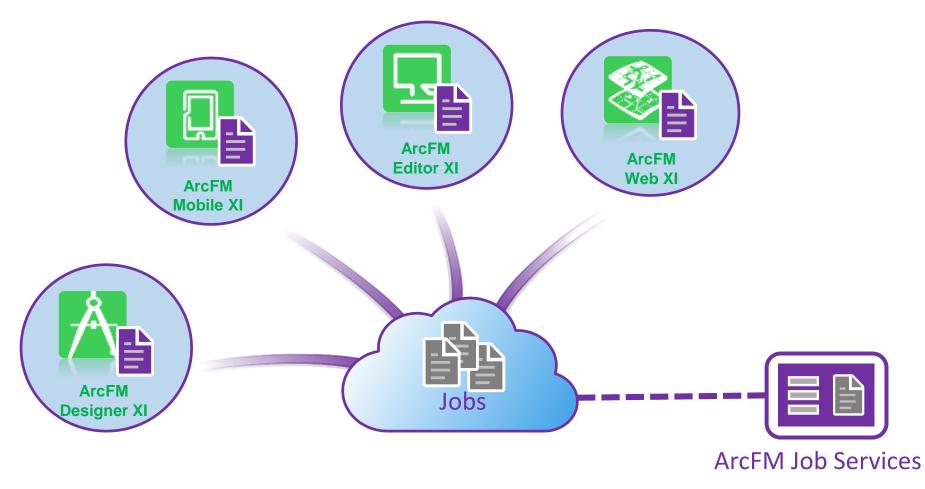
Built for tasks in Design, Construction, As-built



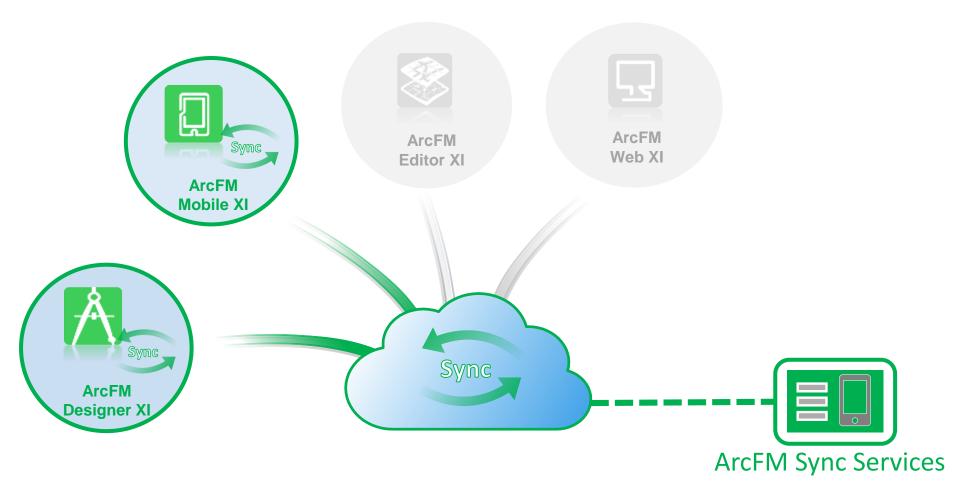
	Designer XI Alpha	- 6
My Work Design		
88 Q. + 4/ n Q		
 ESRVP41F4A Service Point Information Phases: B Load kVA: 4 Mandacturer: Model: Energizing Information Feeder IDs: 541 Energized Phases: B Loop: False Multifed: False Upstream Devices Transformer: XFR14235 Protective Devices: FUSE44641 	RN 3 BLO	Compatible Unit List Compatible Unit List Compatible Units SCUs in Design Conductors 2 AAC 2 AAC 2 Crisi Conductors 2 AAC 2 Crisi 2 AAC 2 Crisi 2 Conductors
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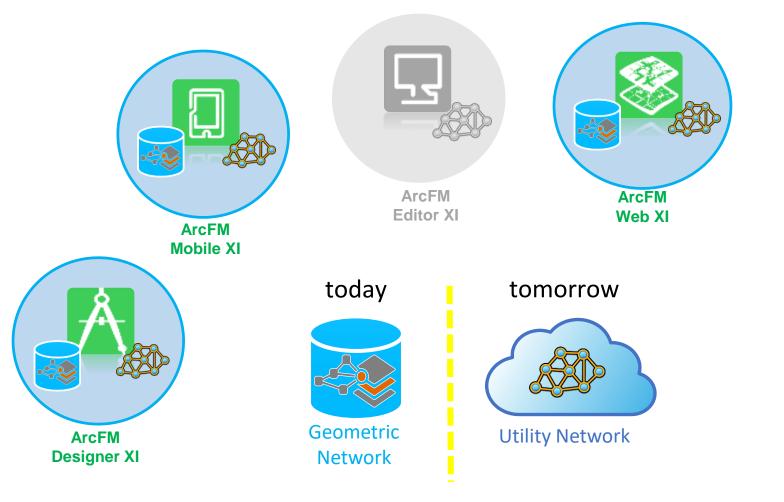


Apps that Talk to One Another

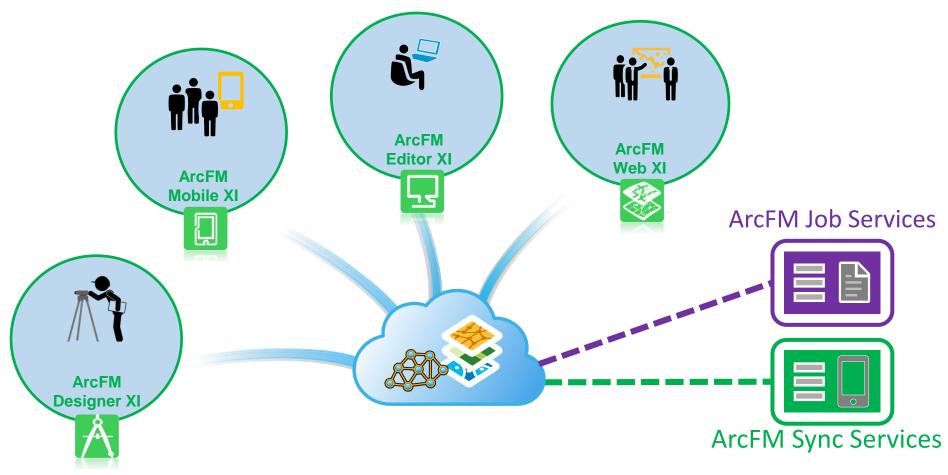


Connected or **Disconnected**, Works Either Way

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Utilities Can Move at Their **Own Pace**



ArcFM Solution XI Series is an Ecosystem,

Improving the collective Design and Construction process

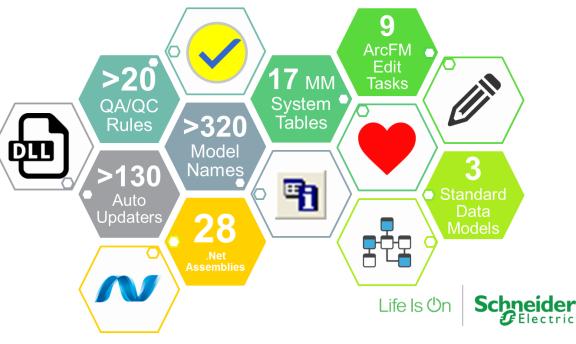
ArcFM Editor XI Alpha & Pilot Offering

ArcFM Editor XI Alpha

Building Your ArcFM XI Pilot offering in development

- Pilot data and configuration migration
 - ~2 feeders/pressure zones +
 - ~2 AUs +
 - ~2 QA rules +
 - ~8 favorites
 - ~12 Stored Displays/Snapping/Favorites





How can you keep in touch?



@SchneiderGIS

@EsriEGUG

Schneider Electric Geospatial Group

https://www.linkedin. com/groups/8531 144



Schneider Electric on Facebook

@SchneiderElectricGIS



ArcFM XI space in exchange

https://infrastructurecommunity.schneiderelectric.com/community/products/gisproducts/arcfm-solution-xi-series

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Link 2018: Save the date! February 27-March 1, 2018 Loveland, CO @ Embassy Suites



Thank you

SUBSTATION DIVISION

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