

From: [REDACTED]
To: [REDACTED]
CC: [REDACTED]
Sent: 2/2/2021 4:59:56 PM
Subject: RE: Request: Intro conversation regarding strike tree analysis

Foundry is the platform that Asset Knowledge Management is using to establish what we have in the past referred to as the Asset Data Foundation where modeling would draw input and training data. I think it is a good idea to try to centralize this data. I do know that rasterized data is not necessarily a good fit with Foundry so we need to be sensitive to potential cases where some data sets may not work well in Foundry. I think it is more important that Asset Knowledge Management manage and curate the data for model users.

From: [REDACTED]
Sent: Tuesday, February 02, 2021 4:44 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Request: Intro conversation regarding strike tree analysis

Interesting. Should we also be reaching out to foundry to ensure that it has access to overstrike model? Does Foundry host the data or is it still be maintained in AWS Sagemaker?

Cheers,

[REDACTED]
Sr. Manager – Mechanical & Materials Engineering
Applied Technology Services
[REDACTED]



From: [REDACTED]
Sent: Tuesday, February 2, 2021 4:42 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Request: Intro conversation regarding strike tree analysis

Data sets are pulled in to our computing environment in AWS Sagemaker. Many of these data sets (model input data) are being established in the Foundry ontology.

From: [REDACTED]
Sent: Tuesday, February 02, 2021 4:39 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Request: Intro conversation regarding strike tree analysis

[REDACTED]

Where is your team storing your datasets for your distribution risk models and PSPS descoping models? Here at ATS, we are currently storing our datasets on a teams site and I feel we need to ensure consistent data storage and access. We would follow your lead if you already had a solution in mind. Else, I will work with [redacted] team to see if they have a suggested solution.

Cheers,

[redacted]
Sr. Manager – Mechanical & Materials Engineering
Applied Technology Services
[redacted]



From: [redacted]
Sent: Tuesday, February 2, 2021 8:49 AM
To: [redacted]
Cc: [redacted]
Subject: RE: Request: Intro conversation regarding strike tree analysis

[redacted] - The files are on the Teams site that [redacted] created for LiDAR Data

[redacted] - Can you add [redacted] to the member list?

A screenshot of the Microsoft Teams interface. On the left, a list of teams is shown under "Your teams". The "LiDAR Data" team, with a red "LD" icon, is circled in red. Below it, the "General" channel is selected. On the right, the "General" channel view is shown, with a red circle around the breadcrumb "General > _Tree Strike Calculations". Below this, a file list is visible with items: "EXCEL", "KMZ", "2021 Circuits for Tree Failure Modeling.xlsx", "2021-01-14 Tree Strike Modeling.pptx", "FileList.bat", and "KmlToKml.bat".

Thanks,

Francis

From: [REDACTED]
Sent: Tuesday, February 2, 2021 8:05 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Request: Intro conversation regarding strike tree analysis

Hey [REDACTED]

Where are all the model results (heat maps) being stored? I'd like us to have a centralized GIS layer where all the results are being stored. [REDACTED] can help build this and I will reach out to [REDACTED] to see if we can make these data available via ET GIS.

[REDACTED]
Sr. Manager – Mechanical & Materials Engineering
Applied Technology Services



From: [REDACTED]
Sent: Monday, February 1, 2021 5:53 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Request: Intro conversation regarding strike tree analysis

Adding to [REDACTED] PSPS work scope, similar calculations have been performed on about 70 distribution circuits (HFTD 2/3 areas) for [REDACTED] system hardening scoping projects:

| | | | | |
|------------------|----------------------|---------------------|-------------------------|------------|
| ALLEGHANY 1101 | DESCHUTES 1104 | KESWICK 1101 | MOUNTAIN QUARRIES 2101 | PUTAI |
| BANGOR 1101 | DIAMOND SPRINGS 1105 | KIRKER 2104 | NORTH DUBLIN 2101 | RINCC |
| BIG BASIN 1101 | DIAMOND SPRINGS 1107 | KONOCTI 1102 | OAKHURST 1101 | RINCC |
| BIG BEND 1102 | DUNBAR 1101 | LAS GALLINAS A 1105 | OLETA 1101/MARTELL 1101 | SHINC 2109 |
| BRUNSWICK 1103 | DUNLAP 1102 | LOS GATOS 1106 | OREGON TRAIL 1103 | SILVE |
| BRUNSWICK 1110 | ELK CREEK 1101 | MARIPOSA 2101 | PINE GROVE 1102 | SILVE |
| BUCKS CREEK 1101 | FITCH MOUNTAIN 1113 | MARIPOSA 2102 | PLACERVILLE 1112 | SILVE |
| CALISTOGA 1101 | FROGTOWN 1701 | MIDDLETOWN 1101 | PLACERVILLE 2106 | STANI |
| CALISTOGA 1102 | FROGTOWN 1702 | MIDDLETOWN 1102 | POSO MOUNTAIN 2103 | TIDEV |
| CAMP EVERS 2106 | FULTON 1107 | MIDDLETOWN 1103 | POSO MOUNTAIN 2104 | TULUC |
| CLAYTON 2212 | HALF MOON BAY 1103 | MIWUK 1701 | POTTER VALLEY P H 1105 | UPPE |
| COARSEGOLD 2104 | HIGHLANDS 1102 | MIWUK 1702 | PUEBLO 2102 | VACA |

Thanks,

Mechanical Engineering and Numerical Analysis
Applied Technology Services (ATS)

From: [REDACTED]
Sent: Monday, February 1, 2021 5:47 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Request: Intro conversation regarding strike tree analysis

Just select distribution circuit segments that are begin identified for PSPS de-scoping at this time.

From: [REDACTED]
Sent: Monday, February 01, 2021 5:44 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Re: Request: Intro conversation regarding strike tree analysis

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

Very nice!

For what coverage area is this model's results available? All of HFTD 2 and 3? Or only the potential PSPS descoping areas being considered? Or some other extent?

On Mon, Feb 1, 2021 at 5:41 PM [REDACTED]

This work is part of the PSPS descoping criteria. Wen's team builds a mechanical simulation of the distribution line and then uses the LiDAR tree data to identify which trees can reach the line. The simulation then models those trees falling on the line and the results indicate whether the tree is likely to break the line or other components of the line.

From: [REDACTED]
Sent: Monday, February 01, 2021 5:00 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Re: Request: Intro conversation regarding strike tree analysis

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

Ah, well, I wonder if perhaps I already know about your model [REDACTED]

I work for and closely with [REDACTED]

[REDACTED] showed me a great presentation about your strike tree analysis work - could you share it with

me?

[REDACTED] can you help illuminate things here? I'm sure I'm missing something simple with regards to understanding [REDACTED] work.

Thanks, [REDACTED]

On Mon, Feb 1, 2021 at 4:53 PM [REDACTED] wrote:

Hey [REDACTED]

Happy to share. The model we developed is being utilized by [REDACTED] and his PSPS descoping model and some other purposes. Plugging in [REDACTED] so he is aware of the ask.

What times are available for you?

Cheers,

[REDACTED]
Sr. Manager – Mechanical & Materials Engineering
Applied Technology Services
[REDACTED]



From [REDACTED]
Sent: Monday, February 1, 2021 4:47 PM
To: [REDACTED]
Subject: Request: Intro conversation regarding strike tree analysis

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

Hi [REDACTED]
My team develops wildfire risk models for PG&E - you can learn more about us and our work here
[REDACTED]

I recently became aware of your work on analyzing tree data (from PG&E's LiDAR surveys, I believe) to inform [REDACTED] System Hardening work planning.

My team would very much like to learn more about your work - would you have time to share some details with us? Just a half-hour would be great!

I'm happy to schedule a mutually-available time.

Please let me know, thanks.

Cheers [REDACTED]

[REDACTED]
Product/Project Manager (Contractor)
Risk and Data Analytics (RaDA), PG&E
[REDACTED]

