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**From:** [REDACTED]  
**To:** [REDACTED]  
**CC:** [REDACTED]  
**Sent:** 2/2/2021 4:42:12 PM  
**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.

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**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]



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**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?

**Teams**

Your teams

- Distribution Line Slapping Pilot (LiDAR) ...
  - General
  - Line Slap Analytic Working Group
- PSPS Distribution Thresholds ...
- ATS Numerical Analysis ...
- 2G22 Main Generator EI ...
- 2Z22 Main Generator EI ...
- LiDAR Data** ...
  - General**
- ATS Failure Analysis Review ...
- Applied Technology Services ...

**General** Posts Files Wiki Wiki +

+ New Upload Sync Copy link

General > **\_Tree Strike Calculations**

Name

- EXCEL
- KMZ
- 2021 Circuits for Tree Failure Modeling.xlsx
- 2021-01-14 Tree Strike Modeling.pptx
- FileList.bat
- KmlToKml.bat

Thanks,

[Redacted]

**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



[Redacted]

**From:** [Redacted]  
**Sent:** Monday, February 1, 2021 5:53 PM  
**To:** [Redacted]

Cc: [REDACTED]  
Subject: RE: Request: Intro conversation regarding strike tree analysis

[REDACTED]  
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	TULU
CLAYTON 2212	HALF MOON BAY 1103	MIWUK 1701	POTTER VALLEY P H 1105	UPPE
COARSEGOLD 2104	HIGHLANDS 1102	MIWUK 1702	PUEBLO 2102	VACA

Thanks,

[REDACTED]  
Mechanical Engineering and Numerical Analysis  
Applied Technology Services (ATS)  
Cell: [REDACTED]

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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.

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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] wrote:

This work is part of the PSPS descoping criteria. [REDACTED] 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.

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**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 Wen!

I work for and closely with [REDACTED])

[REDACTED] today [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, Cooper

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



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**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]

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