Zaid Alhourani

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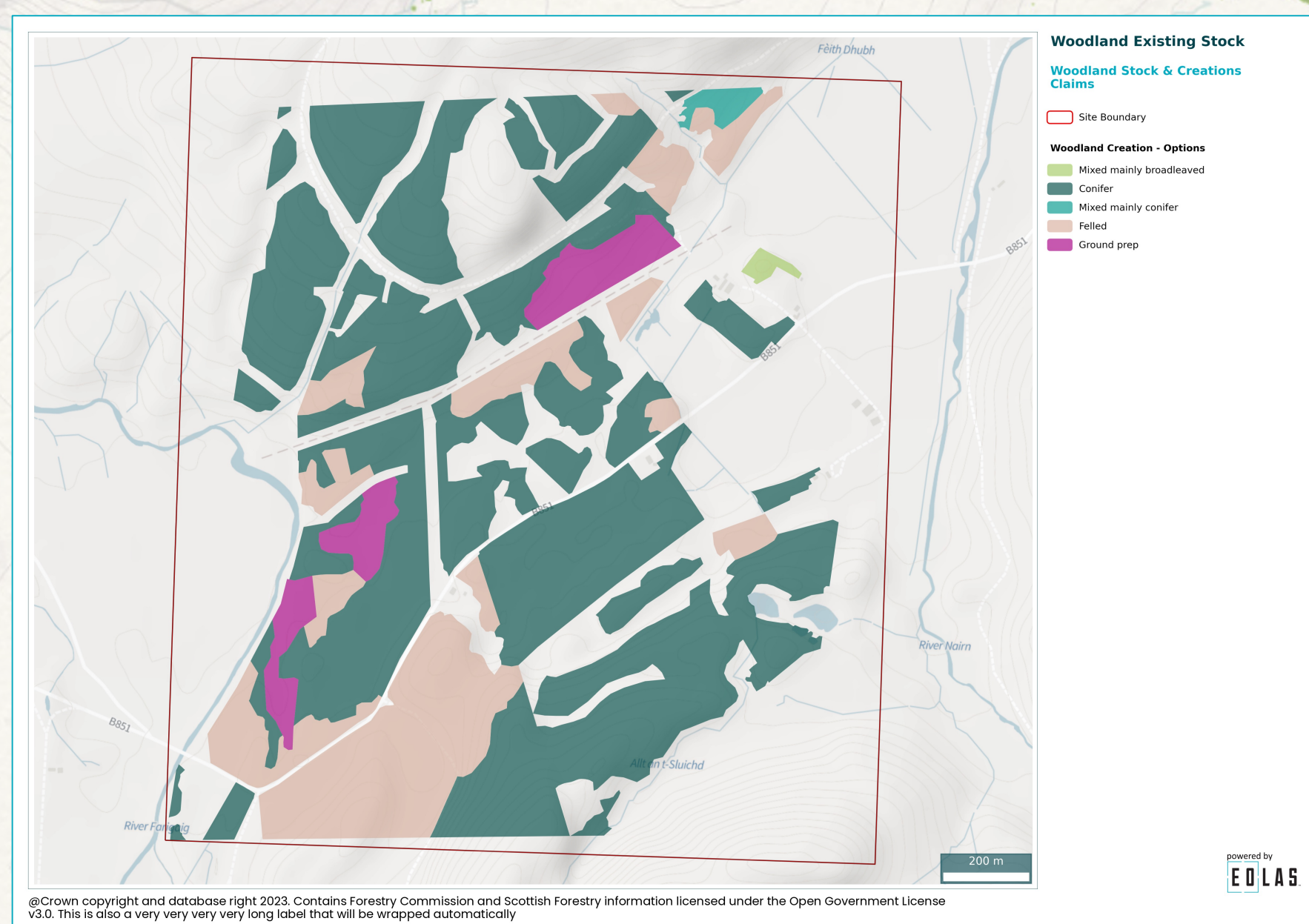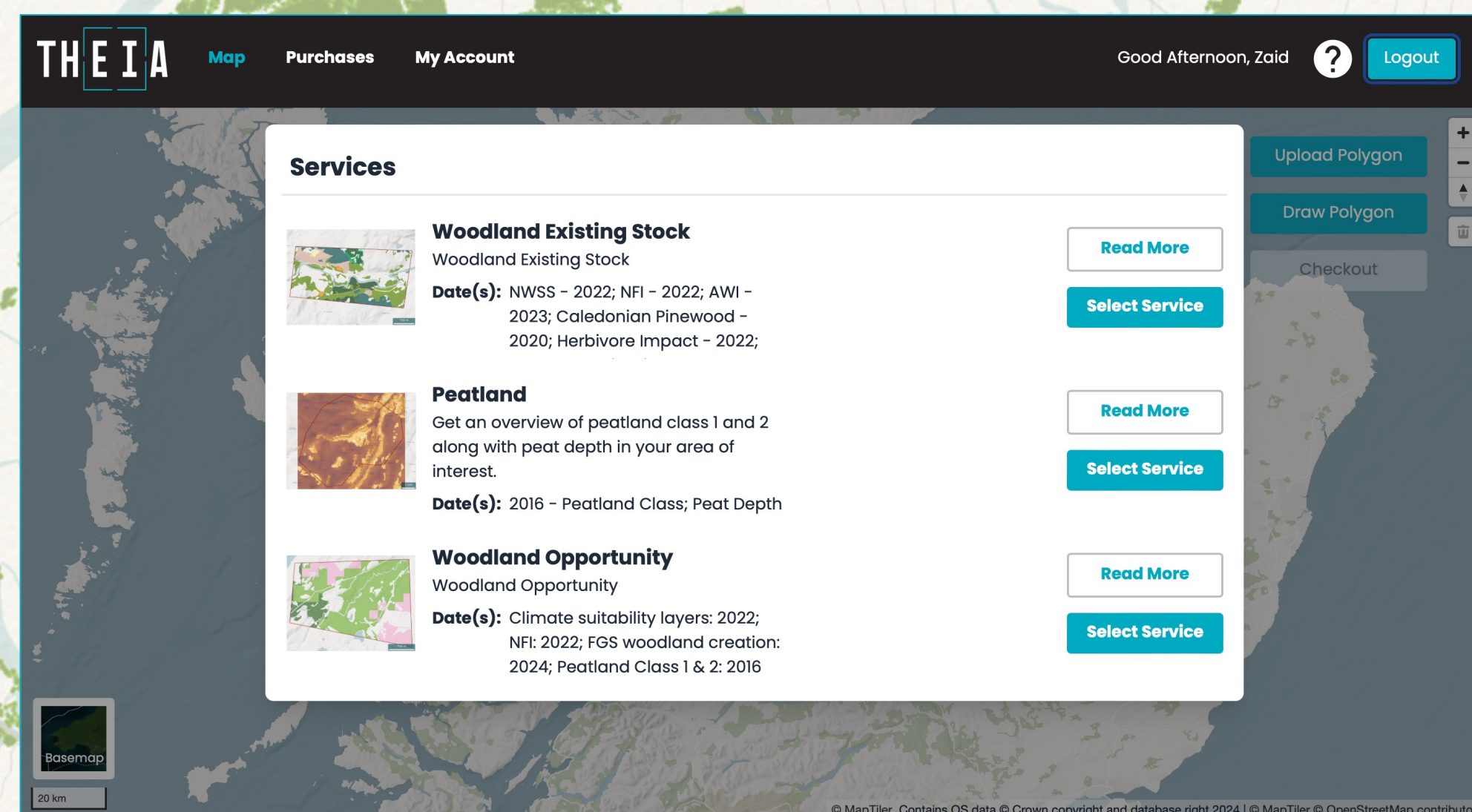Email Address   LinkedIn

EOLAS™

Website

Who is EOLAS Insight?

Growing out of the vibrant Scottish Space Sector, EOLAS are a team of GIS specialists, data scientists, satellite data analysts and general technologists who set out to address a challenge: How to simplify and accelerate map creation.

EOLAS provides easy access to the latest mapping technologies for professionals needing geospatial information, but either don't have the time or the expertise to accommodate complex Geographic Information System (GIS) based analysis.

Theia

Theia is an automated mapping and reporting platform designed for the planning, monitoring, and management of woodlands, peatlands, and deer populations. Theia enables users to draw or upload polygons, providing them access to the best available data, whether from national datasets or advanced AI mapping technologies. The platform automates the creation of comprehensive map-based reports, delivering valuable insights quickly and cost-effectively, making it a powerful tool for environmental management and conservation efforts.

Internship Objectives

- **Integrate Services**: Seamlessly connect data science outputs with the web development team's mapping platform (Theia)
- **Communication**: Facilitate productive communication between the data science and web development teams..
- **Support CI/CD workflow**: Dockerize and support the transition to Bitbucket pipelines.
- **Dynamic Legends:** Automate the process of Dynamic legend generation for the Theia A3 and Report sized Maps.

What will I take away from this internship?

- Gained a solid understanding of CI/CD, Docker, and Bitbucket Pipelines.
- Acquired knowledge about the space industry and its broad reach.
- Enhanced coding skills and effective communication within organizations.
- Developed problem-solving abilities and improved teamwork skills.
- Learned to navigate and contribute to complex technical projects.

Results/Conclusion

- Developed automated scripts to seamlessly integrate new services into the database, enhancing efficiency.
- Designed user-friendly forms for the Data Science team to streamline communication and collaboration across teams.
- Authored comprehensive guides to facilitate the transition to CI/CD pipelines, ensuring smooth implementation.
- Created a dynamic and extensible legend tool for generating map legends, adaptable to various mapping needs. Additionally, maintaining a high degree of generic and extensible coding convention.

Acknowledgments

- Thank you to the wonderful team at EOLAS for the unique and memorable experience.
- Some text derived from eolasinsight.com
- Background image ©eolasinsight

CATAPULT Satellite Applications

SP IN Space Placements in Industry

UK SPACE AGENCY