

# EO4OG Challenges - List view

Challenge	Source	Theme	Topic
Anticipating areas of high seismic impedance	OTM	Seismic planning	Areas of poor coupling
Assess and map forest fire risk and provide situational awareness of fire occurrence	Hatfield	Seismic planning	Identification of environmentally sensitive areas
Assess forest characteristics to plan access and assess hazards	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Flagging environmentally sensitive areas prior to seismic surveys	OTM	Seismic planning	Identification of environmentally sensitive areas
Identify areas with soft sediments to avoid strong attenuation	Hatfield	Seismic planning	Areas of poor coupling
Identify areas with soft sediments to plan access and assess hazards	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify claypan surfaces to be avoided	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify ice thickness and status for travel safety	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify lake, river and coastal ice grounding status for data quality	Hatfield	Seismic planning	Areas of poor coupling
Identify land parcel boundaries for impact compensation	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify optimal seasonal land-use to reduce permit costs - commercial and subsistence practices	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify permafrost zone for data analysis	Hatfield	Seismic planning	Areas of poor coupling
Identify restricted areas that must be avoided	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify rivers, lakes and wet areas to apply safe set-back distances	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify rock-strewn areas to point loading	Hatfield	Seismic planning	Areas of poor coupling
Identify sabkahs / salt-lake areas	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify sensitive habitat to minimise and manage impacts of activities	Hatfield	Seismic planning	Identification of environmentally sensitive areas
Identify soft ground to reduce environmental impacts	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify steep slopes to assess potential constraints to access	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify steep slopes to assess potential constraints to access in forested areas	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify soft and hard ground as areas of potentially poor coupling	Hatfield	Seismic planning	Areas of poor coupling
Identify up-to-date general land-use patterns to plan access and apply safe set-back distances	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identify UXO related hazards	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Identifying conflicting sources of seismic signals	OTM	Seismic planning	Areas of poor coupling
Identifying ground conditions susceptible to poor coupling	OTM	Seismic planning	Areas of poor coupling
Identifying munitions debris (UOX)	OTM	Seismic planning	Identification of adverse terrain for trafficability
Identifying soft ground for seismic vehicles	OTM	Seismic planning	Identification of adverse terrain for trafficability
Identifying steep terrain for seismic vehicles	OTM	Seismic planning	Identification of adverse terrain for trafficability
Identifying variations in trafficability for seismic vehicles	OTM	Seismic planning	Identification of adverse terrain for trafficability
Planning bridging through a tropical forest	Hatfield	Seismic planning	Identification of adverse terrain for trafficability
Planning heliports, camps and drop-zones in forested areas	Hatfield	Seismic planning	Identification of environmentally sensitive areas
Understanding the near-surface for explosive charge placement	OTM	Seismic planning	Areas of poor coupling