

Ground Instability in the Pantteg Area, Ystalyfera

Hazard Plan Description

1. What is the plan?

The hazard plan represents the first stage of a modern assessment of landslide hazard and risk in line with international standards; these provide guidelines on definitions, types and levels of landslide zoning. To consider risk, hazard is first assessed.

2. Definitions of key terms

- Hazard - a condition with the potential for causing an undesirable consequence (e.g., location, volume/area, velocity of the potential landslides and any resultant detached material).
- Risk - a measure of the probability and severity of an adverse effect to health, property or the environment.

The current hazard zone definitions are as follows:

Higher Hazard	Records of recent landslides associated with steeper terrain. This hazard zone takes into account potential of landslide runout/regression.
Moderate Hazard	Interpreted extent of ancient landslide with isolated observation observations of structural distress.
Lower Hazard	Outside the interpreted ancient landslide; no evidence of recent landslides or observed distress. However, areas of overstep terrain are present.

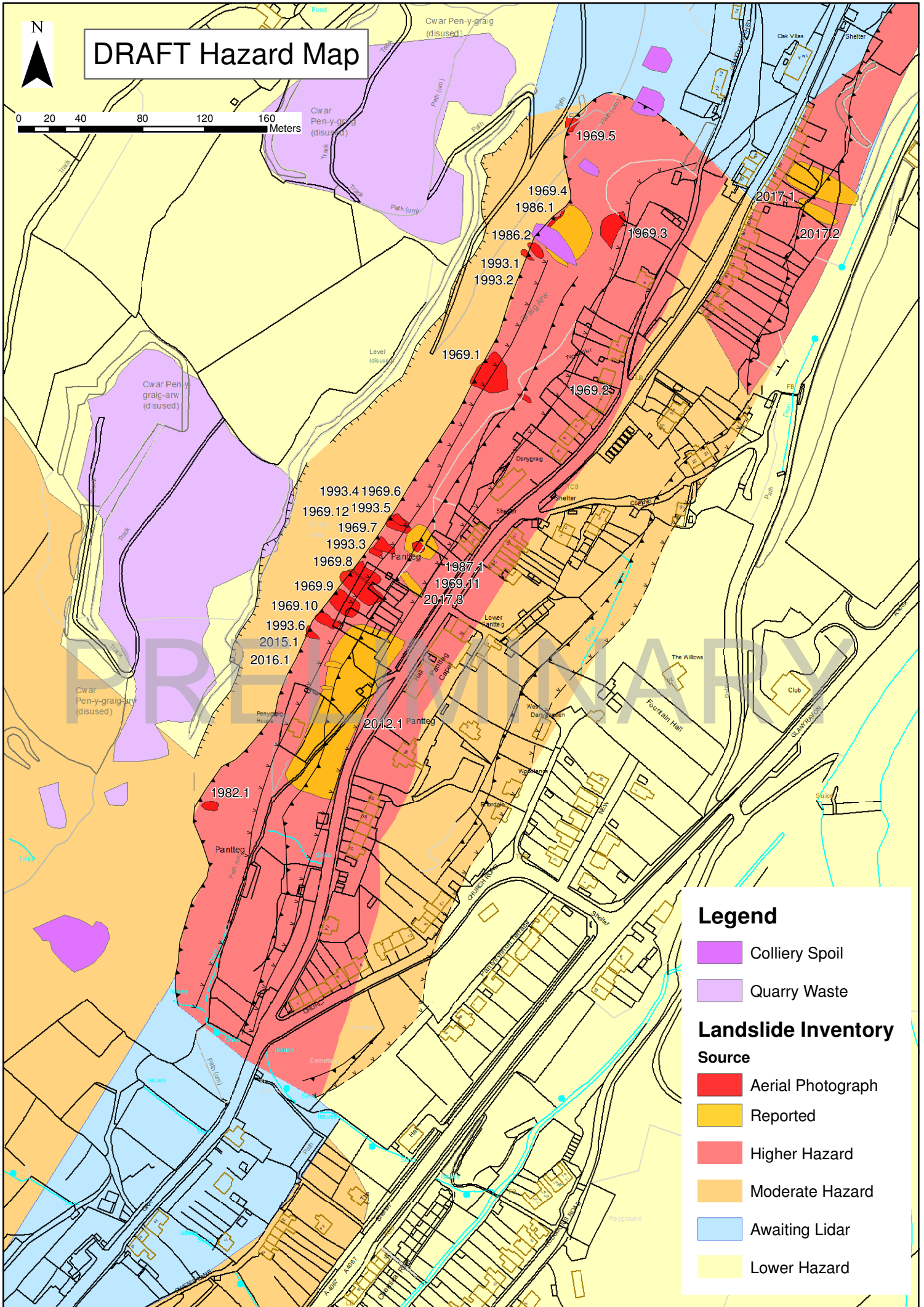
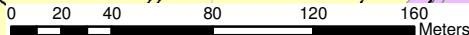
3. Development of the Assessment

Qualitative hazard/risk estimations, as described in the table above, are initially being used to provide insights into trends, to consider a wide range of possibilities and to zone different areas.



Quantitative hazard/risk estimations combine values of detriment with probability of occurrence. The next stage of work will provide risk estimations and the hazard plan will be updated.

The next steps involve update and refinement of the hazard plan using new information from site investigation, Lidar surveys and subsequent modelling/review. Our forthcoming risk assessment will be implemented for individual properties/features.

DRAFT Hazard Map









Legend

-  Colliery Spoil
-  Quarry Waste

Landslide Inventory

Source

-  Aerial Photograph
-  Reported
-  Higher Hazard
-  Moderate Hazard
-  Awaiting Lidar
-  Lower Hazard