

**Appendix 2:** Network analysis of the opportunities and constraints of wood-based bioenergy (WBB) in western Montana.

Below, we use a network analysis to illustrate the major concepts and codes derived from interviews, and how they relate to one another (Fig. A2.1). This was created in Atlas.ti, a qualitative software program useful for conducting grounded theory analyses, through an iterative and inductive approach. These concepts and codes are structured around economic, social, and ecological opportunities and constraints

Fig. A2.1. Network analysis of the opportunities and constraints of wood-based bioenergy (WBB) in western Montana. The “opportunities” and “constraints” themes (Pink boxes) are organized around “social”, “economic”, and “ecological” concepts (Orange boxes). The links between the opportunities and constraints themes and the social, economic, and ecological concepts are denoted with a “is part of” relationship. Several codes and sub-codes (Gray boxes) are attached to each concept. Root codes associated with each concept are linked with a “is a” relationship. Links are also made between root codes and sub-codes with a “is part of” relationship. This iterative and inductive approach resulted in 20 codes associated with the “opportunities” theme, 10 of which were root codes and 10 of which were defined as sub-codes. Alternatively, 17 codes were identified under the “constraints” theme, 8 of which were considered root codes, and 9 were defined as sub-codes.

