

Neuchâtel Partners

Queensland Minerals Research Barriers and Priorities

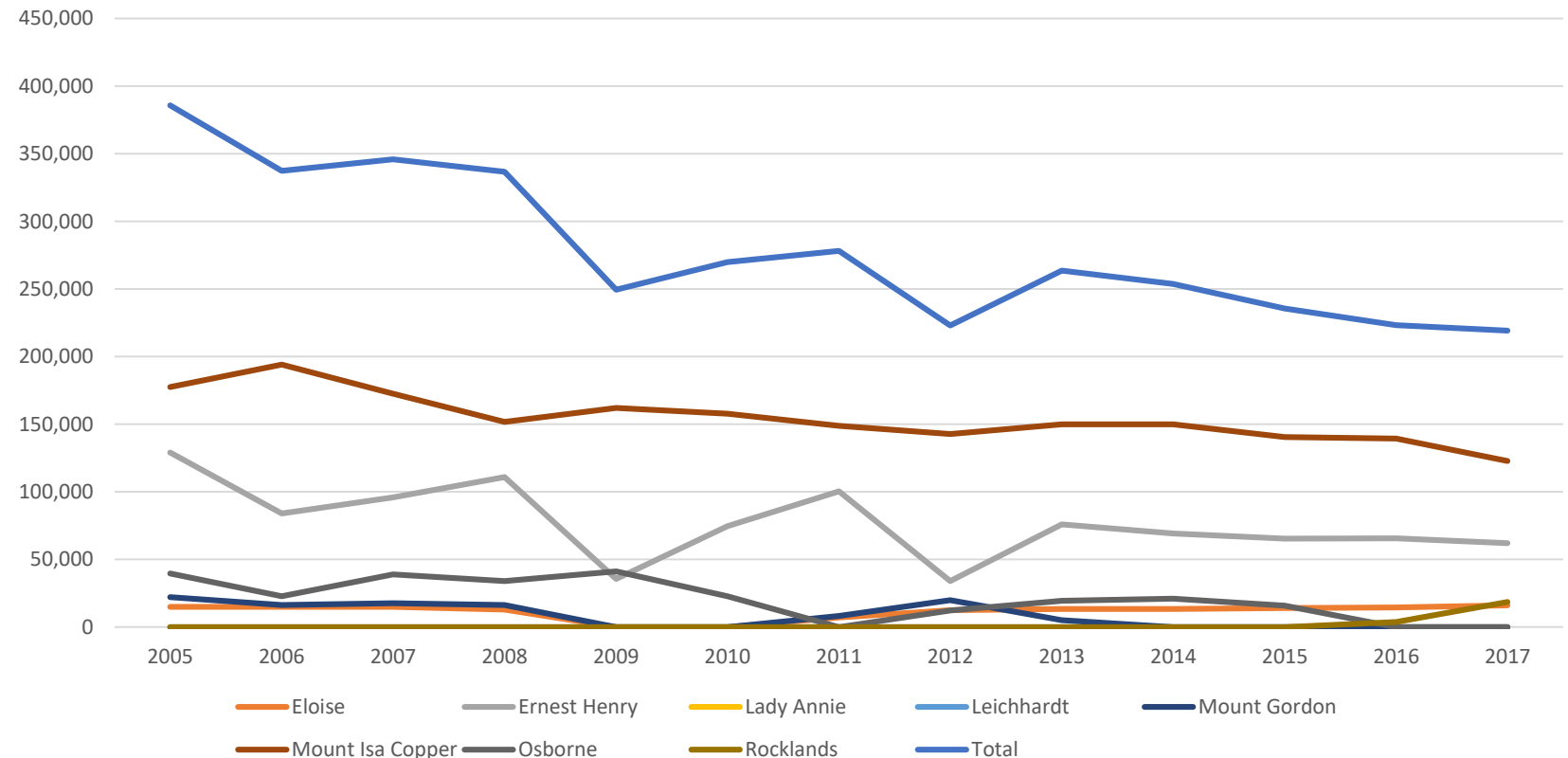
Study Scope

- What are the drivers for transformational R&D for the Queensland Minerals Industry?
- What is the current extent of research and development activity relevant to the Queensland minerals sector?
- What are the knowledge, capabilities, barriers, gaps and opportunities for R&D relevant to the Queensland mineral sector?
- What are the R&D priorities relevant to the Queensland minerals industry for the next 10 years?
- What are the barriers and solutions to research and commercialisation priorities?
- Undertake an interjurisdictional analysis of R&D approaches applicable to the minerals sector – what has worked well?
- What are the potential roles for the Queensland Government in minerals R&D, including skills and value that government adds to the minerals industry?

Drivers for transformational R&D for the Queensland Minerals Industry

- Lack of new mineral discovery despite high prospectivity
- Depletion of existing resources without replacement
- More orebody complexity
- New mineral targets
- Skills depletion
- Cost-competitiveness
- Dealing with legacy assets
- Social license imperatives

North West Minerals Province
Contained copper metal produced (tpa)
Source: AME Research, DNRME



Industry / Research Collaboration in Mining – The Status Quo

Current State Characterised by

Barriers to effective collaboration

CONVERGING PRESSURES

SHORT TERM FUNDING FOR NEAR-TERM ISSUES

DECLINE IN RESEARCH CAPABILITY

IMBALANCE BETWEEN FUNDAMENTAL AND APPLIED RESEARCH PROJECTS

UNCOORDINATED

INDUSTRY NEEDS NOT FULLY EXPLAINED OR UNDERSTOOD

IDEAS GET “LOST IN TRANSLATION”

INSUFFICIENT FUNDING COMMITMENT TO ADDRESS LONGER TERM INDUSTRY ISSUES

OUTCOMES NOT INTEGRATED INTO LARGER VALUE PROPOSITIONS

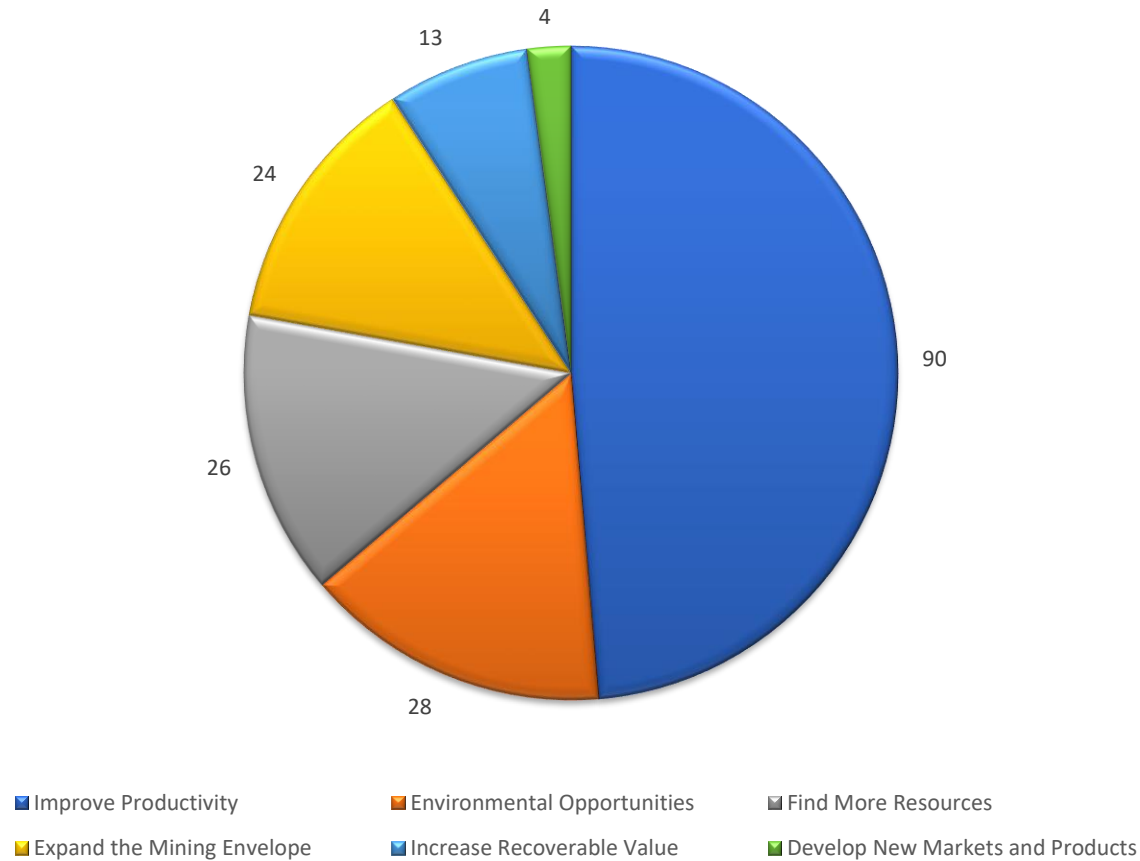
MISSALIGNMENT

Research and development activity relevant to the Queensland minerals sector.

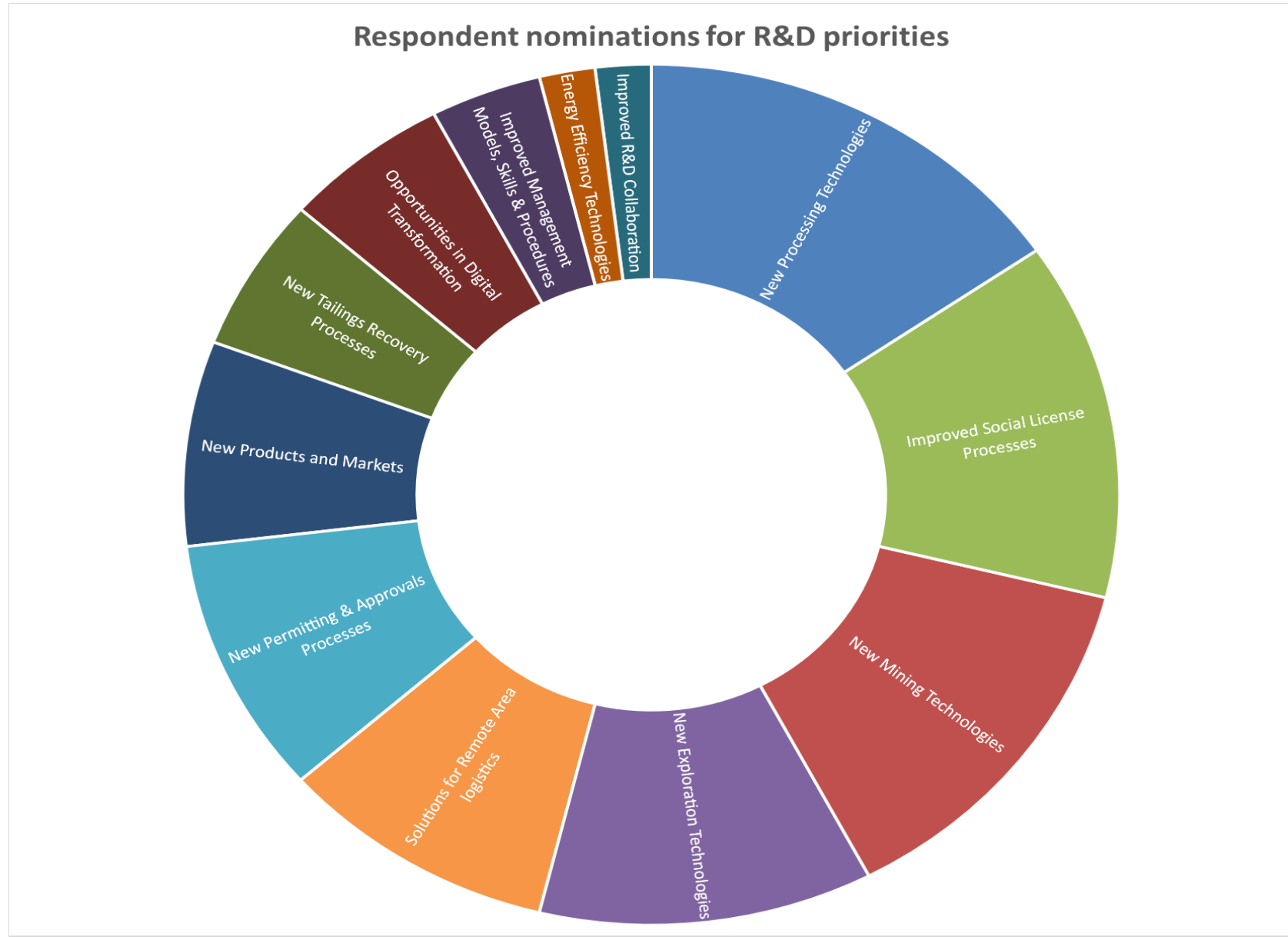


Knowledge, capabilities, barriers, gaps and opportunities for R&D relevant to the Queensland mineral sector

R&D Theme Distribution by number

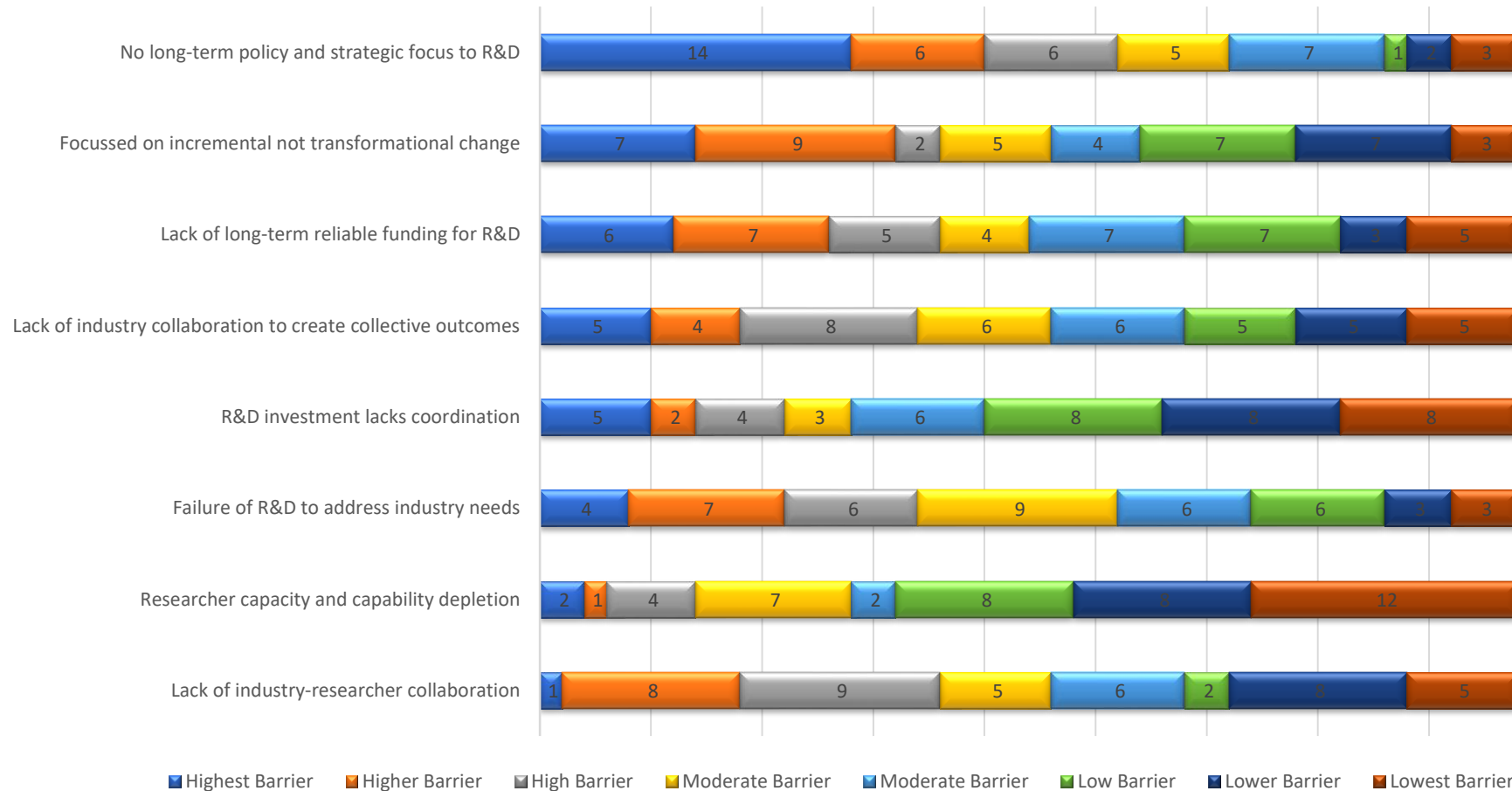


R&D priorities relevant to the Queensland minerals industry for the next 10 years



Barriers and solutions to research and commercialisation priorities

Barriers to effective R&D



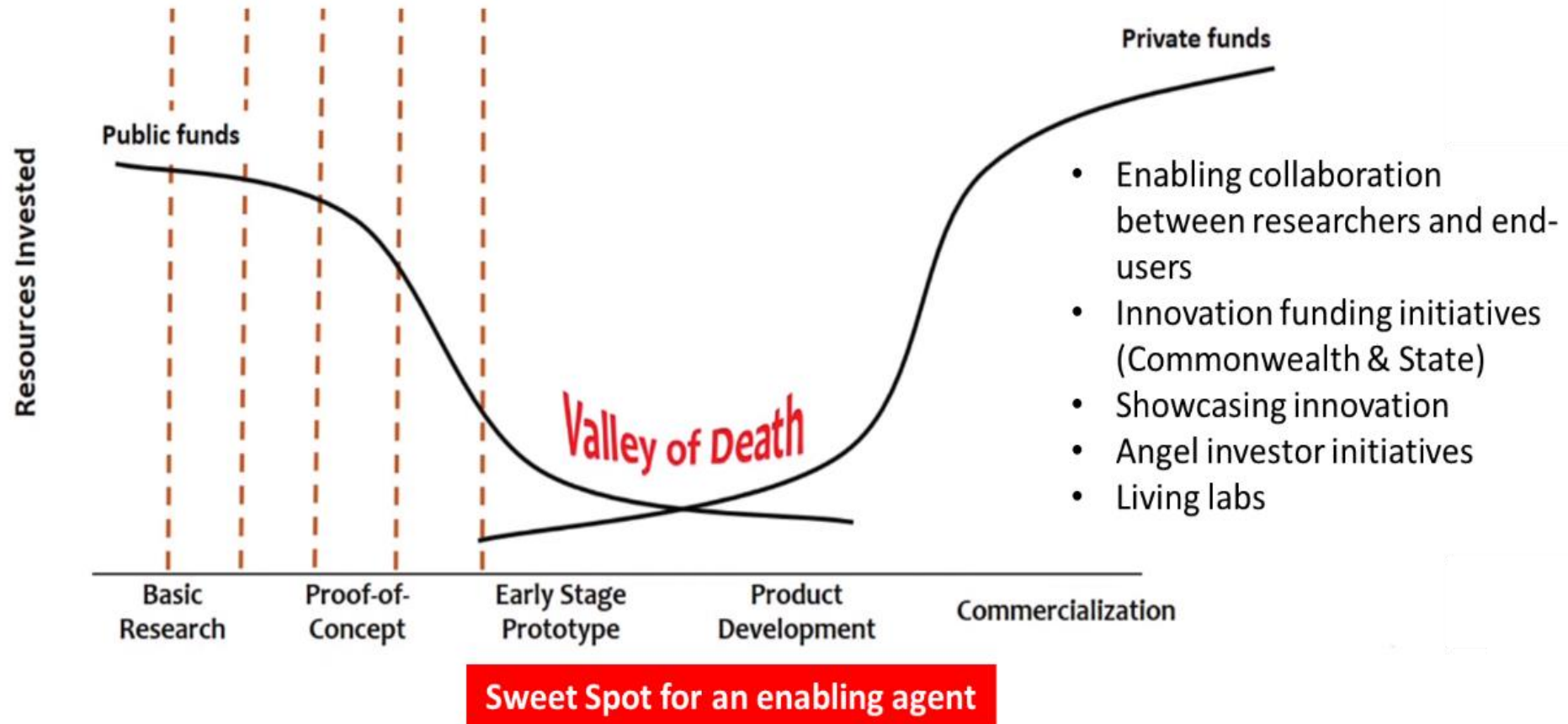
Interjurisdictional analysis of R&D approaches applicable to the minerals sector

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Potential roles for government

Queensland R&D – roles for government in crossing the valley of death



Potential roles for government

Role of Government in enabling effective R&D

