1: INTRODUCTION
- Frieda Mine – SEPIK DEVELOPMENT PROJECT
- Status – Government Approval phase – CEPA process – Env Permitting
- Mine at an unthinkable Location - headwaters of major feeder river into the Sepik
- Need Highest level of Scientific Assessments
- Exploring opportunities for Economic Development – DDA or SPA

2: CONTEXT - BODY PRESENTATION
- Frieda Mine – Sepik Development Project
- Huge Impact Footprint 2X Provinces
- negatives and + positives
- Identify development opportunities – build economies
- DDAs not much help – NEED A SPECIAL PURPOSE AUTHORITY

3: CONCLUSION
- Development brings impacts – threats – opportunities
- Need guidance to establish SEPIK RIVER BASIN Special Purpose Authority
SPECIAL PURPOSE AUTHORITIES

RESPONSIVE
✓ After environmental/natural incidents
✓ Restoration from disasters, etc

PROACTIVE
✓ EiAs – Environmental Impact Assessments
✓ SESA – Strategic Environment and Social Assessments

ISSUES AND CONCERNS
✓ Where Funding from?
✓ DDAs vs SPA?
✓ Technical capability
WATER QUALITY MODELING

Water Quality Models determine changes in pollutant concentrations in environment. May increase or decrease based on interaction with other elements while in mobility.

MEETING WORLD STANDARD DRINKING WATER GUIDELINES

1. **Water Quality Modelling**

2. **Geotechnical Stability Aspects**

3. **Financial Modelling**
WHAT ALTERNATIVE DEVELOPMENT TO A MINE DO WE HAVE?

Geological – Geographic Setting – Landforms – Geo hazards – Natural Resources NEED TO BE STRATEGIC

GENERATE DEVELOPMENT VALUE CHAINS

1 – 6 Regions:
1: Seas + Coastal Region
2: Mountain Ranges
3: Sepik Plains
4: Sepik River Basin
5: South Sepik – Ramu Plains
6: South Boarder Mountains

Identify – Assess – Document – Plan

1. Geology – Landforms-Geo Hazards – Mineral Resources
2. Bio-physicals
3. Socio-Economics

• Geo Hazards – Preparedness
• Resources – Improved Develop
• Services –
ALLUVIAL GOLD POTENTIAL - SOUTH SEPIK ALLUVIAL GOLD PROVINENCE.

VALUE CHAINS

1. LICENSING (AMLS,ELs etc. & Mineral Development

2. Operation – Regulatory Compliances EMMPs

3. Taxation & state Participation

4. Revenue Distribution & Management

5. Local Impact

South Sepik Alluvial - 16 centers of known alluvial gold workings Current
1. Establish area of “Run out Zone”
2. Assess Cost Of Remediation – Clean up
3. Demand long term funds-Env Bonds Mine Closure funds upfront etc
   • Revive Culture
   • Promote Sustainable Development + Agro Industry Growth
4. Build an Economy thru Investments
   • Improve
     • Social Services
     • Livelihoods
   • Promote Sustainable Development + Agro Industry Growth
**Higher Accountability thru**
- Legislations Acts and Policies

**Higher Stakeholder Participation for**
- Marginal and indigenous groups

**Sustainable Development**
- Intergenerational Savings
- Equitable rent transfers
- Biophysical & Socio Economic Stability
- Effective policies/resource governance

**Inclusive Development**

**Favourable Outcomes for**
- Local Communities,
- Women,
- Marginalised groups
- Youth
- Conflict prevention Mitigation
- Resource ownership issues
GOLD MARKET VALUE CHAIN

Gold Sources
- Sale Purchase (Direct Bars)

Gold Bullion Trade (Bullion Bars)
- Open Oceania Bullion Market
  - Central Bank of PNG
    - Before Trading Period
  - Bullion Bank of PNG
    - Deal & Trade in Gold Bullion

Kwadu Minerals
- Deal, operation

Handcock Mines
- State-owned

Abroad Mining
- Independent or Implant
- Abroad Gold Buyer

Abroad Mining
- Gold Products

DISCUSSION PAPER
IS DISTRICT DEVELOPMENT AUTHORITY AN EFFECTIVE DECENTRALISED GOVERNMENT MECHANISM TO IMPROVE SERVICE DELIVERY?

inquire influence

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Papua New Guinea
CONCLUSION.

• SEPIK RIVER BASIN UNDER THREAT, but;

• OPPORTUNITIES for ECONOMIC GROWTH
  • with proactive Assessments (EIAs SESAs)
  • IDENTIFY – DOCUMENT VALUE CHAINS + NATURAL HAZZARDS

• I NEED SUPPORTIVE DIALOGUE TO GUIDE-SCOPE & ESTABLISH SPA
  • DO we need a SPA or can we go on with DDAs?

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THANK YOU