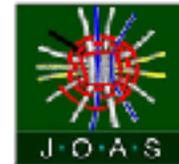


# Overview of Infrastructure Development Projects of Concern in Sabah

Coalition 3H



BORNEO FUTURES  
science for  
change



# 12<sup>th</sup> Malaysia Plan (12MP)

The Twelfth Malaysia Plan (12MP) will be aligned with the shared prosperity initiative encompassing three dimensions, namely economic empowerment, environmental sustainability and social re-engineering.

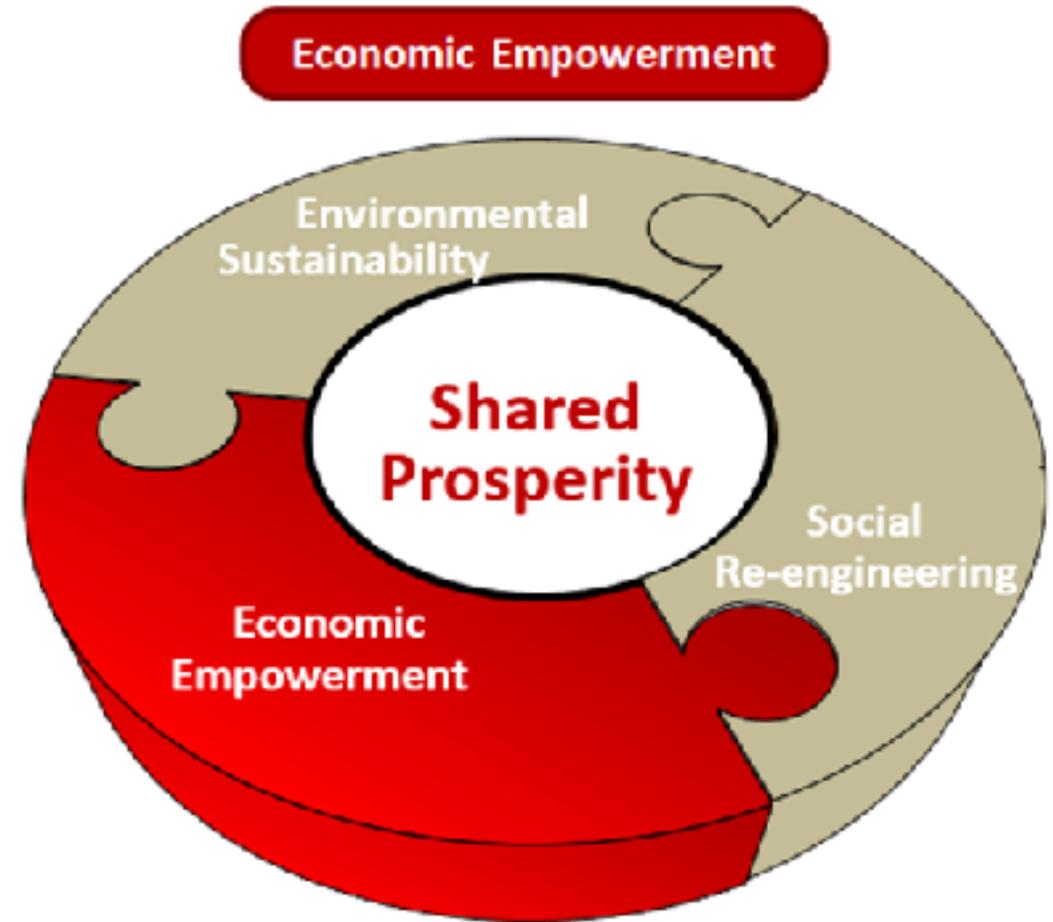


Summary  
**SHARED  
PROSPERITY  
VISION  
2030**



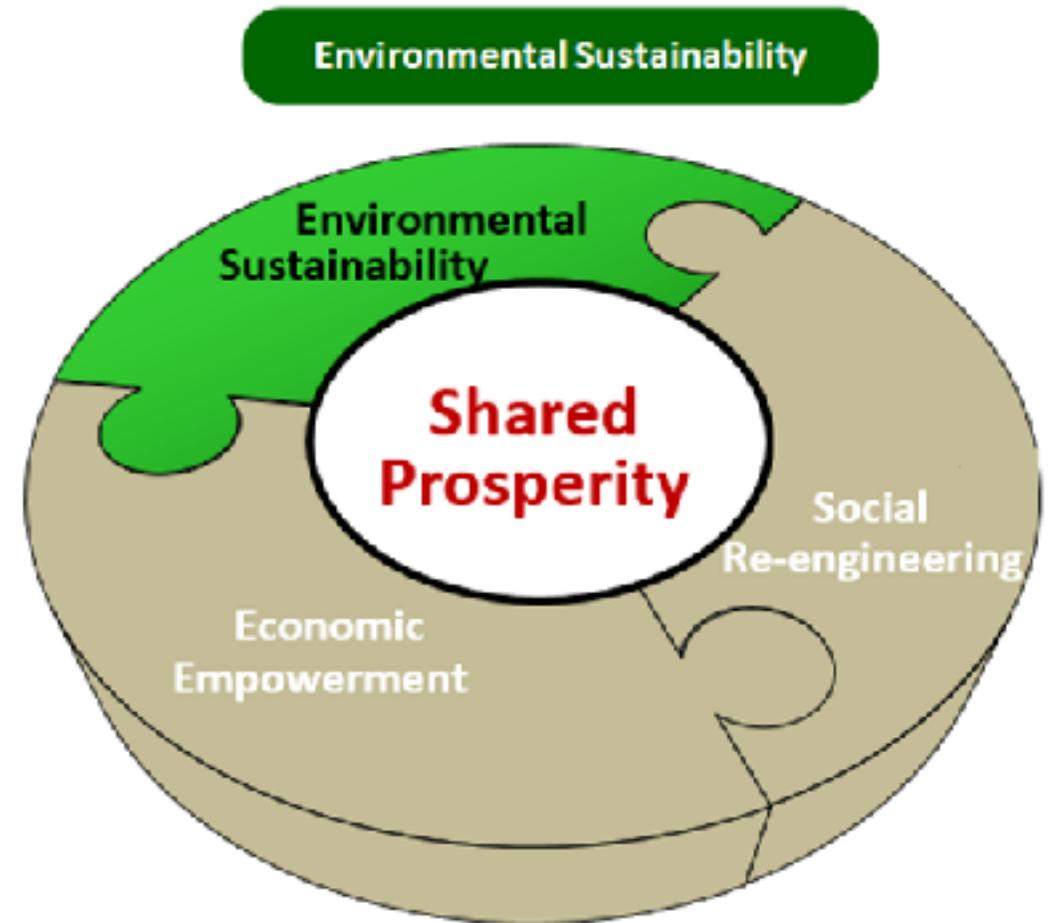
# 12<sup>th</sup> Malaysia Plan (12MP)

The economic empowerment dimension will include new sources of growth, including Industrial Revolution 4.0, digital economy, aerospace industry, integrated regional development as well as growth enablers such as sustainable energy sources and infrastructure connectivity.



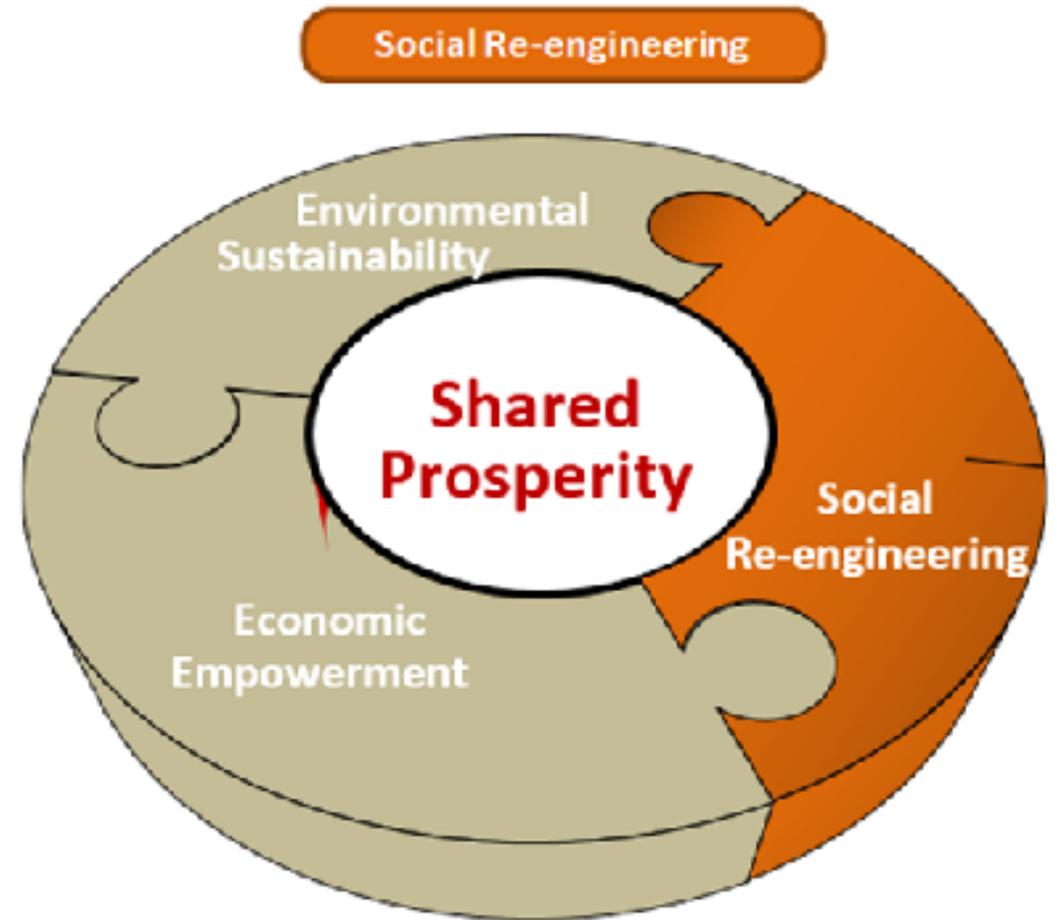
# 12<sup>th</sup> Malaysia Plan (12MP)

The environmental sustainability dimension, among others include the blue economy, green technology, renewable energy as well as adaptation and mitigation of climate change.



# 12<sup>th</sup> Malaysia Plan (12MP)

The social re-engineering dimension comprises enhancing societal values, improving purchasing power of the people, building resilient Bumiputera community, strengthening social security networks and improving the wellbeing of the people.



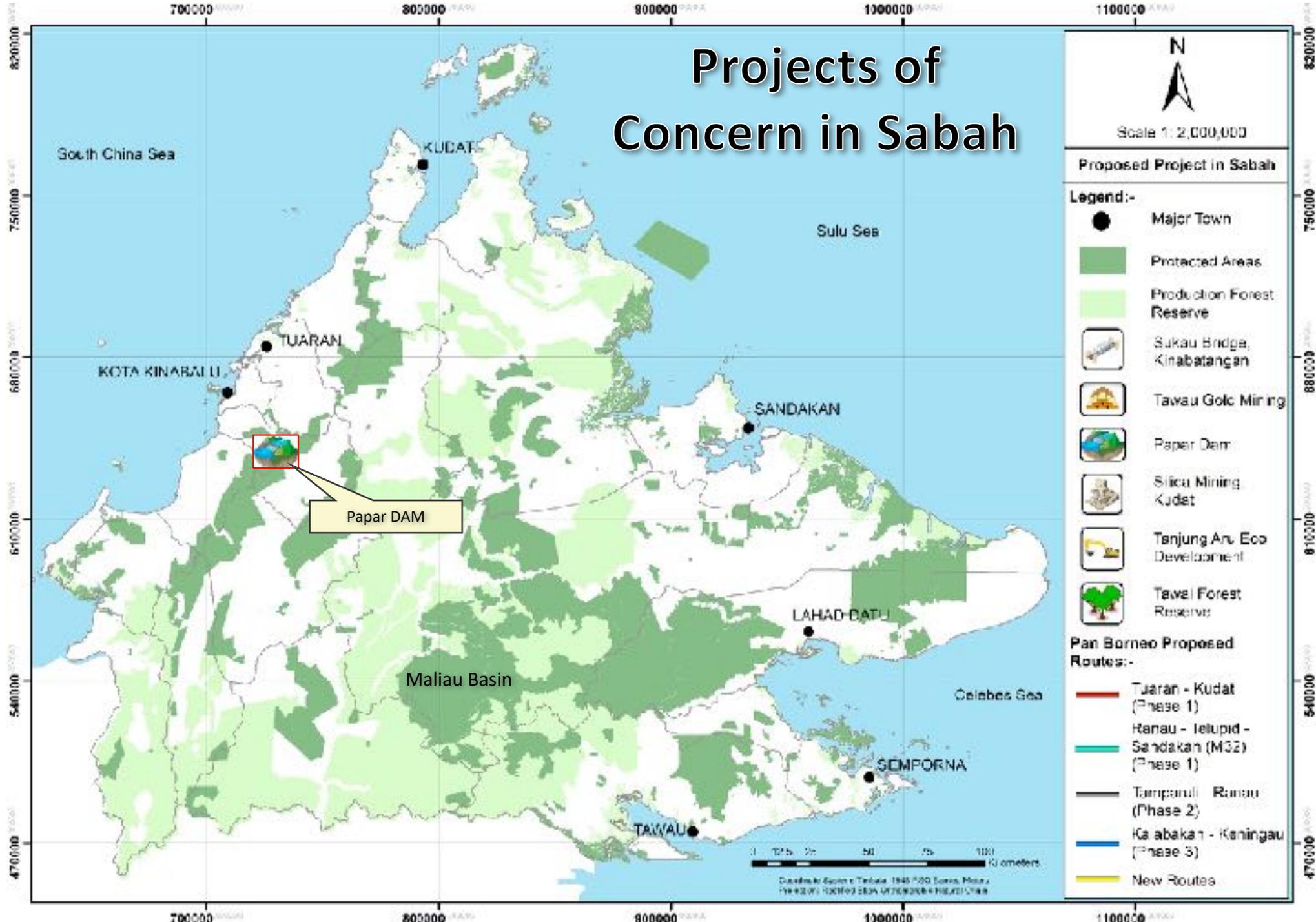
# 12<sup>th</sup> Malaysia Plan (12MP)



## 8 ENABLERS



# Projects of Concern in Sabah



# PAPAR DAM

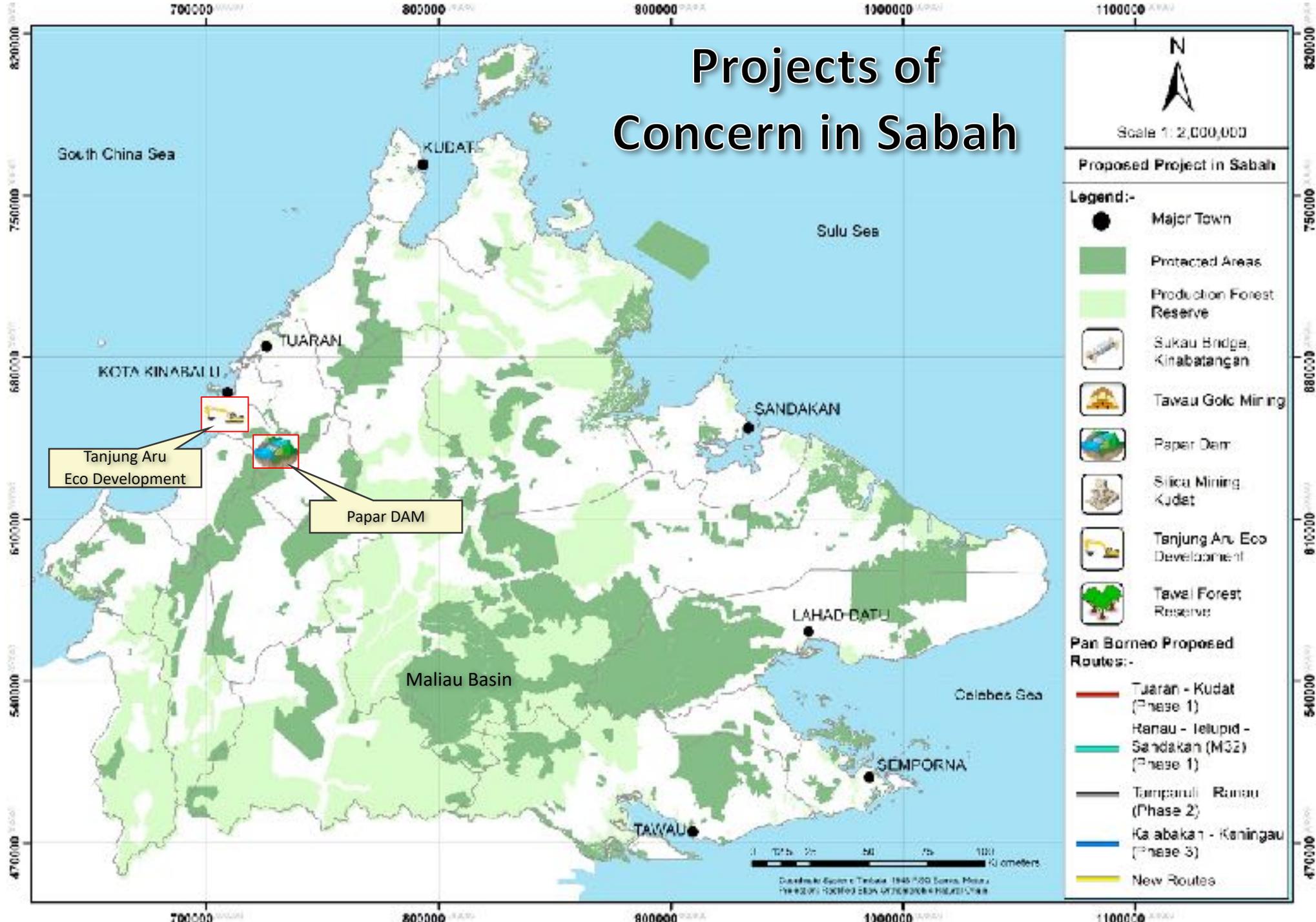
## Location



# PAPAR DAM

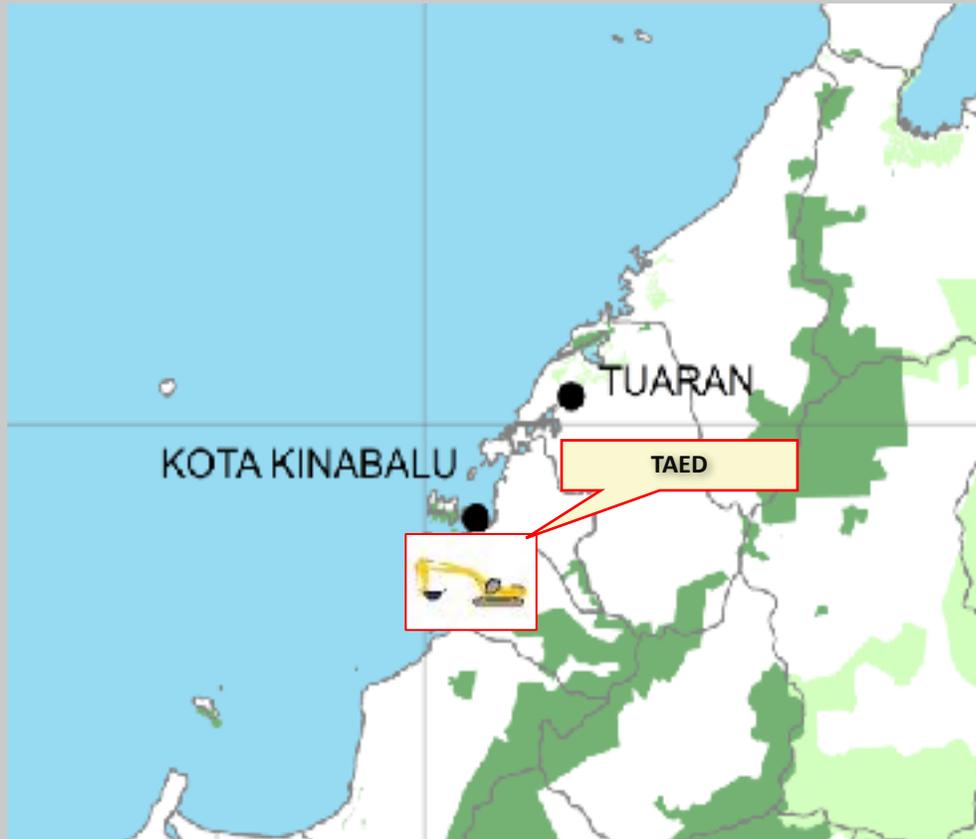
Project title	Issues and concerns	Options and recommendations
<p>PAPAR DAM</p> <p><i>*No EIA</i></p>	<ul style="list-style-type: none"><li>■ Extra <b>water load</b> on Crocker Range landscape may induce earthquakes</li><li>■</li><li>■</li><li>■ <b>Coastal erosion and seawater intrusion</b> when there is less natural flow volume and pressure coming from Papar River if the dam is built</li></ul>	<ul style="list-style-type: none"><li>■ <b>Multiple off-line reservoirs</b> per Prof Felix Tongkul's proposal</li><li>■</li><li>■ <b>Large fields of floating photo-voltaics</b> can be installed on the offline reservoirs' surface</li><li>■</li><li>■ <b>Offline water storage reservoirs</b> approach is not new in Sabah</li></ul>

# Projects of Concern in Sabah



# TANJUNG ARU ECO DEVELOPMENT (TAED)

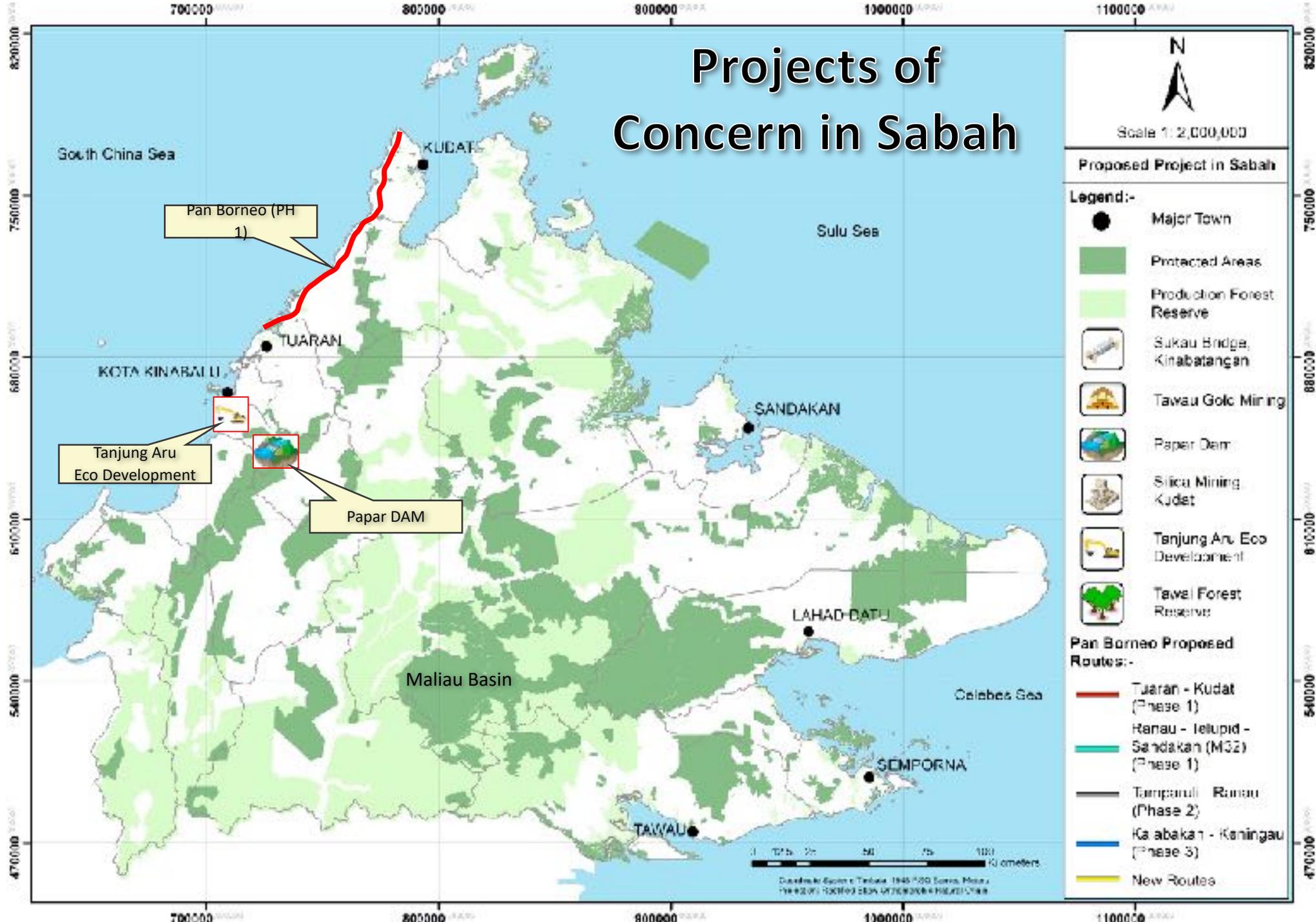
## Location



# TANJUNG ARU ECO DEVELOPMENT (TAED)

Project title	Issues and concerns	Options and recommendations
<p>TANJUNG ARU ECO DEVELOPMENT (TAED)</p> <p><i>*EIA approved but no construction</i></p>	<ul style="list-style-type: none"> <li>■ Reclamation (226 hectares) may affect nearby <b>Tunku Abdul Rahman Marine Park</b> with <b>sedimentation run-off</b> and <b>hydrological changes</b></li> <li>■ Risks of <b>water pollution</b> from increased water traffic including sand dredger</li> <li>■ If dredge channel as in original design, creates a massive island with only <b>minimal public access</b> routes and potential sedimentation of channel</li> <li>■ <b>Noise, light, dust pollution</b> during construction</li> <li>■ Destruction of beach's original <b>character/heritage value including Aru trees</b></li> <li>■ <b>Habitat loss</b> for blue-naped parrot and other wildlife</li> </ul>	<ul style="list-style-type: none"> <li>■ Re-design project to <b>not include any reclamation or dredging, and minimize high impact development</b></li> <li>■ Keep the beach's original character as a <b>public park</b> with much <b>improved maintenance and facilities</b></li> </ul>

# Projects of Concern in Sabah



# PAN BORNEO HIGHWAY (TUARAN-KUDAT ROUTE, WP 9-14 SERUSUP – TG SIMPANG MENAYAU)

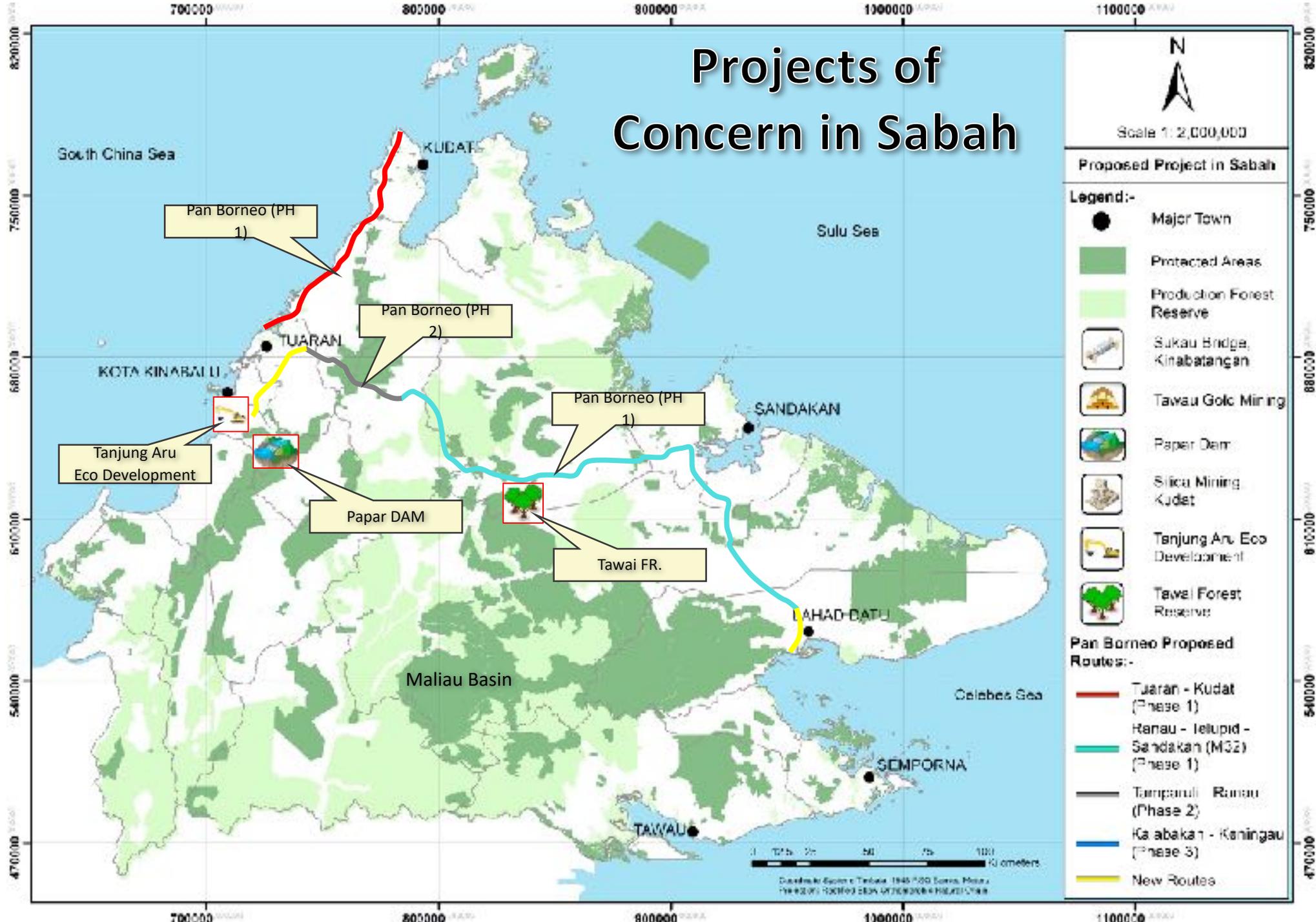
## Location



# PAN BORNEO HIGHWAY (TUARAN-KUDAT ROUTE, WP 9-14 SERUSUP – TG SIMPANG MENAYAU)

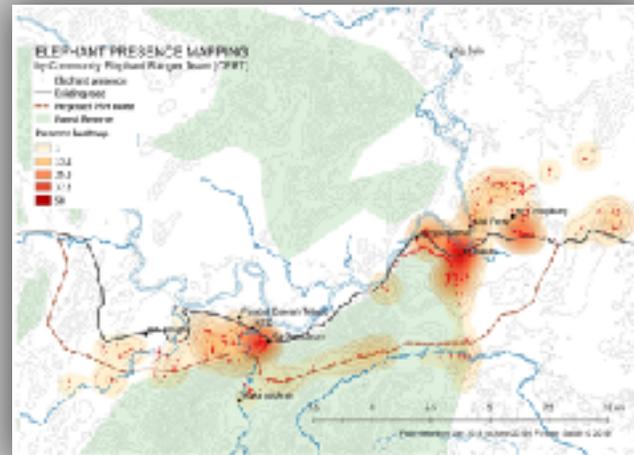
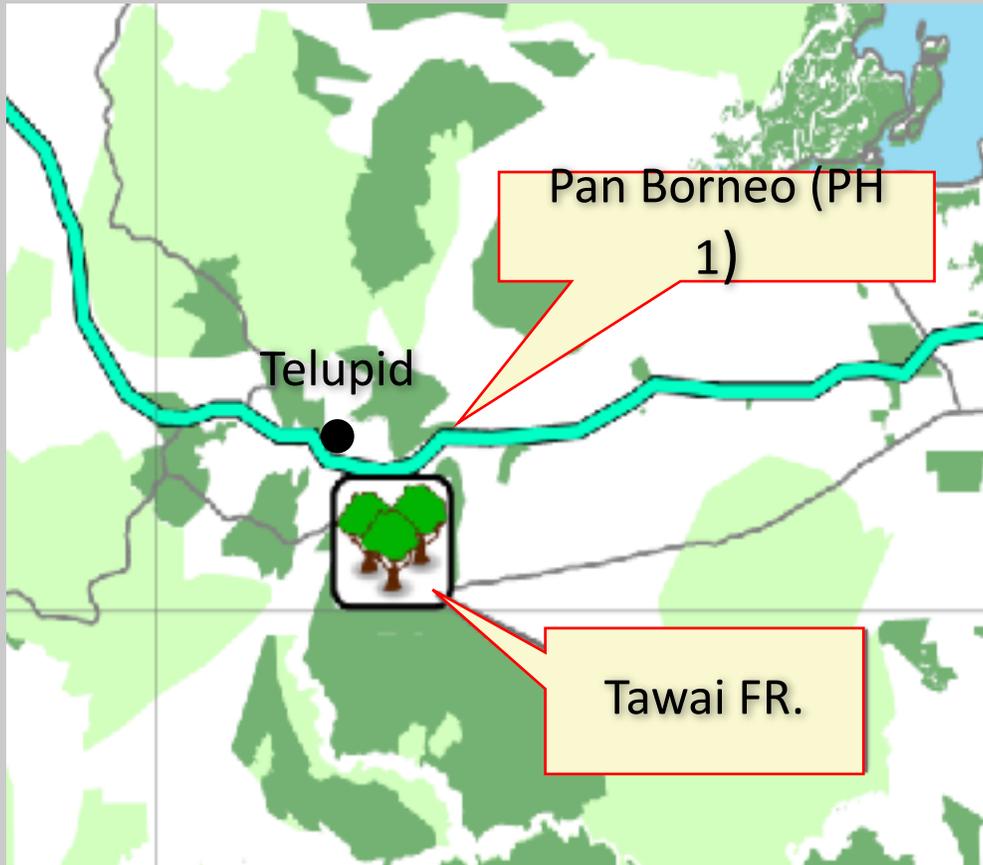
Project title	Issues and concerns	Options and recommendations
<p>PAN BORNEO HIGHWAY (TUARAN-KUDAT ROUTE, WP 9-14 SERUSUP – TG SIMPANG MENAYAU)</p> <p><i>*EIA approved for WP10 only. The rest not approved</i></p>	<ul style="list-style-type: none"> <li>■ 124 km route with 14 bridges would affect 3 <b>Mangrove Forest Reserves</b></li> <li>■ <b>Sediment</b> impacting <b>water quality</b> and <b>intertidal flows</b> which would affect mangrove species and habitats</li> <li>■ Endangered species <b>proboscis monkey, firefly and sealife populations</b> will be affected</li> <li>■ Community-based <b>fisheries</b> along the route will experience reduced harvest</li> <li>■ The route will bisect <b>Kota Belud Bird Sanctuary</b></li> <li>■ For WP 10 Pituru-Rampayan Laut already started, road being constructed <b>only 20 m away from sea</b> in some places</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Review bridge and drainage designs</b> so they do not impair intertidal hydrology and water quality</li> <li>■ <b>Realign stretches</b> not yet started to <b>avoid mangrove forest reserves</b> and other mangrove areas. Restore damaged mangrove areas</li> <li>■ Collect baseline data of existing fishery harvest for monitoring environment management plan effectiveness</li> <li>■ <b>WP 10: Realign stretch away from Kota Belud Bird Sanctuary and away from mangrove and fragile coastal areas</b></li> </ul>

# Projects of Concern in Sabah



# PAN BORNEO HIGHWAY (RANAU-MILE 32 SANDAKAN ROUTE, WP 31 ULU SAPA PAYAU - TELUPID)

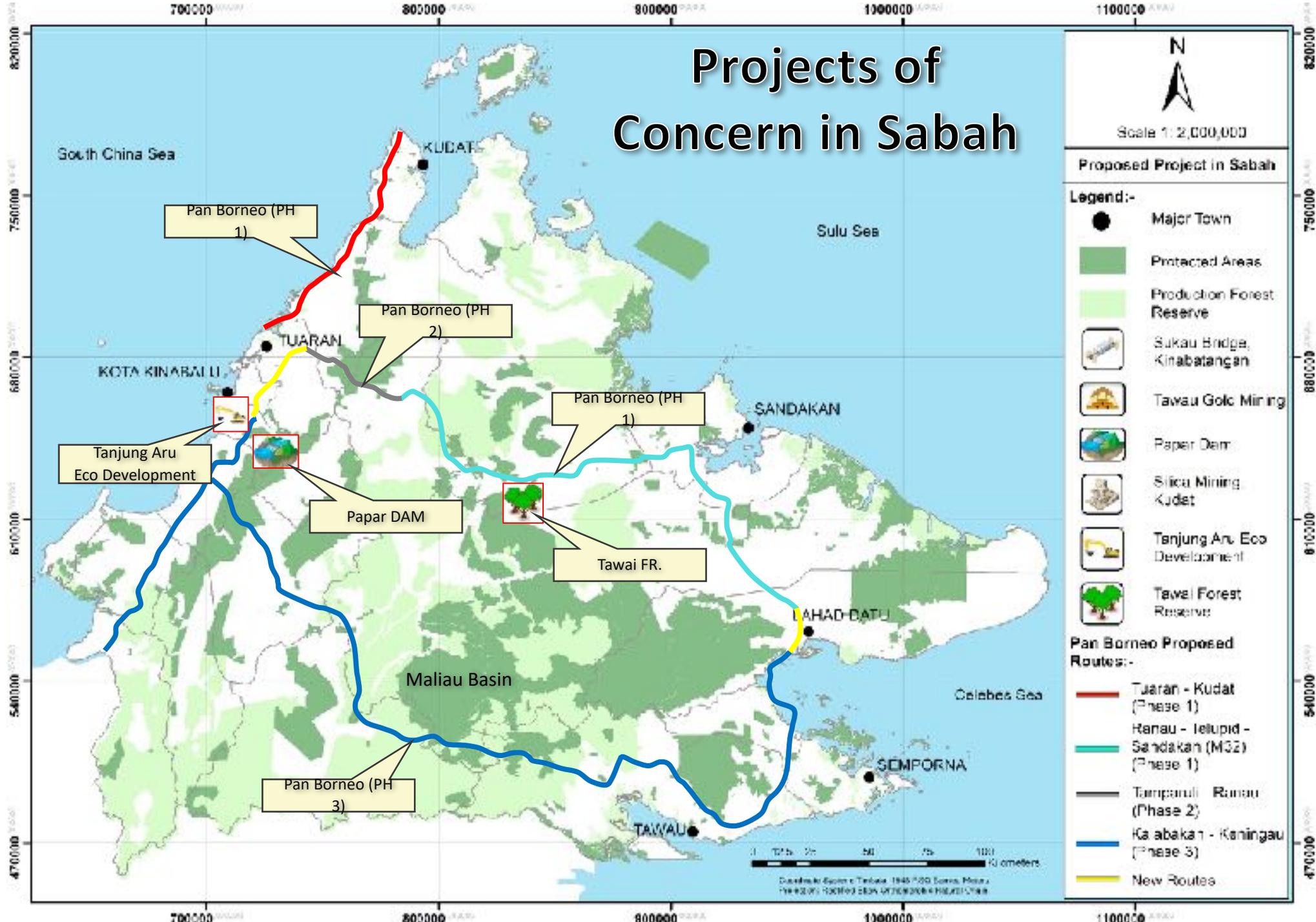
## Location



# PAN BORNEO HIGHWAY (RANAU-MILE 32 SANDAKAN ROUTE, WP 31 ULU SAPA PAYAU - TELUPID)

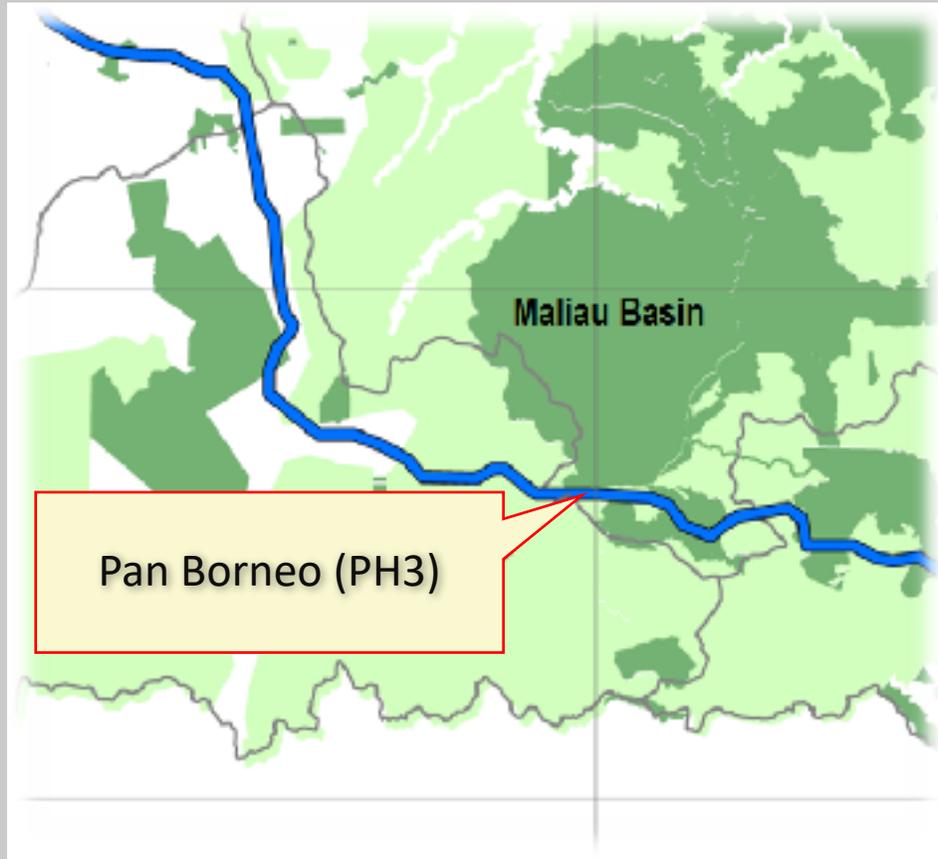
Project title	Issues and concerns	Options and recommendations
<p>PAN BORNEO HIGHWAY (RANAU-MILE 32 SANDAKAN ROUTE, WP 31 ULU SAPA PAYAU - TELUPID)</p> <p><i>*EIA not yet approved</i></p>	<ul style="list-style-type: none"> <li>■ <b>Loss of connectivity</b> for habitat and wildlife and <b>elephant migration</b> as the route will bisect <b>Tawai Class 1 Protection Forest Reserve</b> (part of Heart of Borneo) and <b>Ulu Sapa Payau Class VI Virgin Forest Reserve</b></li> <li>■ Increase in <b>human-elephant conflict - road kills, destruction of crops and potential loss of road workers' lives</b></li> <li>■ An increase in Forest Reserve <b>encroachment</b> and <b>poaching</b> is expected</li> <li>■ Bypassing Telupid town will negatively <b>impact the livelihood of locals</b> living in Telupid</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Realign the route to avoid Tawai and Ulu Sapa Payau FRs</b> and stick to expanding and improving the existing main road. Alternatively, propose a new eco-friendly alignment to the north of the Labuk River</li> <li>■ <b>Implement traffic speed reduction measures</b></li> </ul>

# Projects of Concern in Sabah



# PAN BORNEO HIGHWAY PHASE 3 (KALABAKAN-SAPULUT ROUTE)

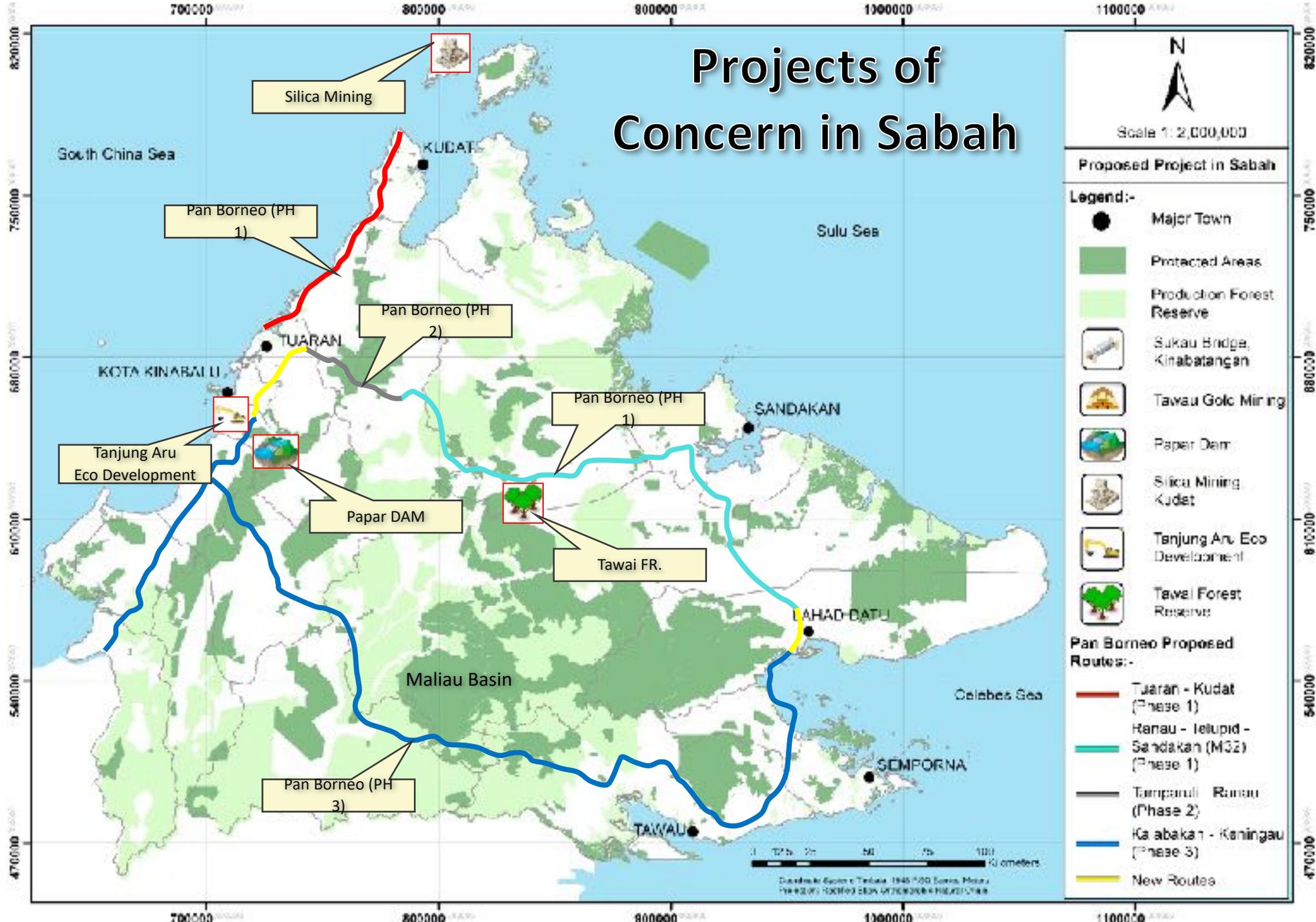
## Location



# PAN BORNEO HIGHWAY PHASE 3 (KALABAKAN-SAPULUT ROUTE)

Project title	Issues and concerns	Options and recommendations
<p>PAN BORNEO HIGHWAY PHASE 3 (KALABAKAN-SAPULUT ROUTE)</p> <p><i>*No EIA</i></p>	<ul style="list-style-type: none"> <li>■ The proposed route bisects several Forest Reserves and Maliau Basin Buffer Zone 2, all rich wildlife areas, including 170km of known elephant habitat</li> <li>■ Fragmentation of the northern HoB including ecological connectivity with northern Kalimantan, and increased loss of connectivity between key Protected Areas</li> <li>■ Enlarging to 4-lanes would increase road kills, and potential loss of workers' life during construction</li> <li>■ An increase in Forest Reserve encroachment and poaching is expected</li> </ul>	<ul style="list-style-type: none"> <li>■ Maintain as 2-lanes with passing points and improved maintenance</li> <li>■ If enlarged to 4-lanes, the road should include over and underpasses for wildlife and speed reduction measures</li> </ul>

# Projects of Concern in Sabah



# BALAMBANGAN ISLAND SILICA SAND MINING

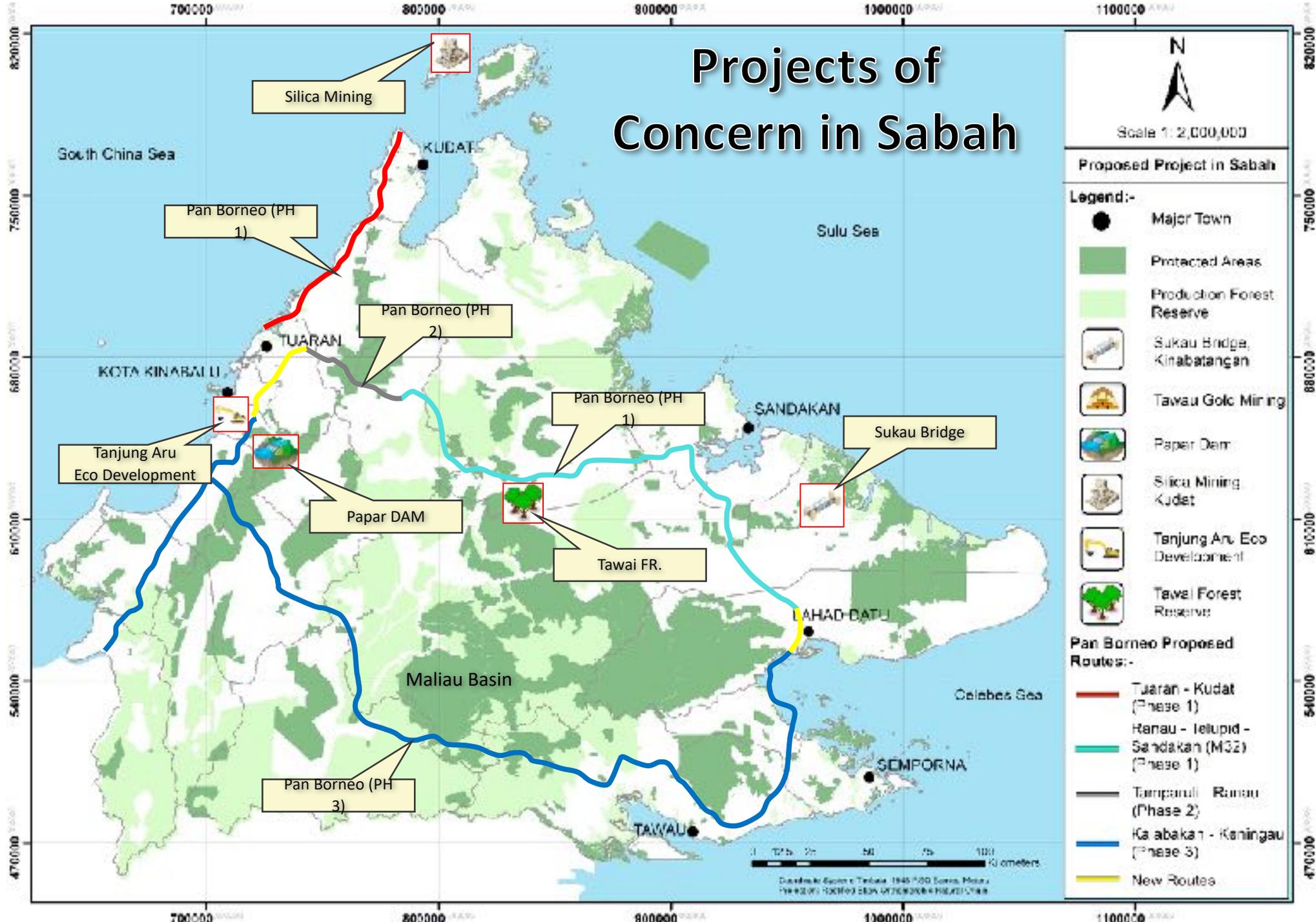
## Location



# BALAMBANGAN ISLAND SILICA SAND MINING

Project title	Issues and concerns	Options and recommendations
<p>BALAMBANGAN ISLAND SILICA SAND MINING</p> <p><i>*No recent EIA</i></p>	<ul style="list-style-type: none"><li>■ Balambangan is located within the biodiversity rich <b>Tun Mustapha Park</b></li><li>■ <b>Sedimentation, soil erosion and pollution will impact water quality</b></li><li>■ Mining can also increase <b>turbidity</b>, which is harmful to organisms like corals and sea grasses that depend on sunlight</li><li>■ <b>Diving, tourism and fisheries industries will suffer due to degradation/ destruction of marine ecosystem and habitats</b></li></ul>	<ul style="list-style-type: none"><li>■ The economically viable decision would be to <b>invest in preservation and sustainable tourism</b>. Balambangan Island though small contains many scientific, aesthetic and cultural heritage values that must be protected from being indiscriminately exploited for short-term economic gains</li><li>■ To protect these <b>sensitive and high heritage value areas</b> as the island could potentially provide income for local communities, fishermen, tourism players and others within and beyond TMP for a period spanning much longer than the mining project</li></ul>

# Projects of Concern in Sabah



# SUKAU BRIDGE

## Location



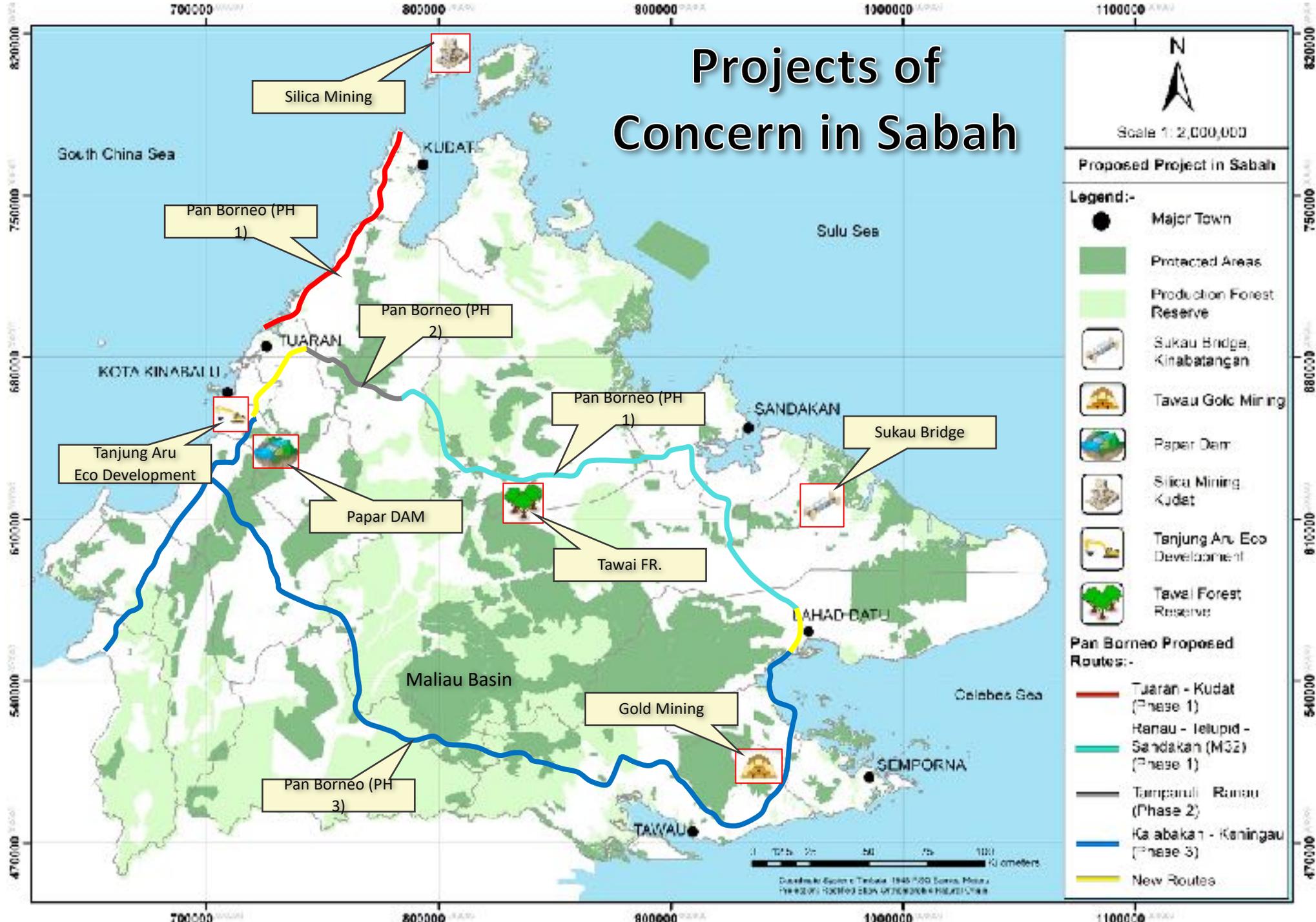
Jalan JEROCO



# SUKAU BRIDGE

Project title	Issues and concerns	Options and recommendations
SUKAU BRIDGE	<ul style="list-style-type: none"><li>■ New bridge over Kinabatangan River and new road south of river would reduce connectivity of orang-utan, elephant and other species populations and fragment the Lower Kinabatangan Wildlife Sanctuary even more</li><li>■ An increase in forest habitat encroachment and poaching is expected</li></ul>	<ul style="list-style-type: none"><li>■ <b>Cancel the new Sukau bridge</b></li><li>■ Traffic on the <b>JEROCO road</b> is higher than the proposed road south of the Sukau bridge as Sukau bridge mostly benefits IOI Plantation.</li><li>■ Utilize the fund for the bridge to <b>repair and maintain the existing 23KM of sealed road in JEROCO and build 47KM of sealed road</b> that will improve access for villagers of Sri Ganda, Tidong, Tundun Bohangin, Litang and Dagat, and the plantation workforce, and facilitate tourism in the <b>RAMSAR Site</b></li></ul>

# Projects of Concern in Sabah



# TAWAU GOLD MINING

## Location



PAHANG

### Reconsider Tawau gold mining project, WWF Malaysia urges govt

**By HETA BHADRAH WYD...**

**RECONSIDER** the Tawau gold mining project, WWF Malaysia urges the government to reconsider the project, saying it is a threat to the environment and the lives of the people of Sabah.

The Tawau gold mining project, which is a joint venture between the Sabah Development Corporation (SDC) and the Tawau Gold Mining Project (TGMP), is a large-scale project that will involve the construction of a new mine and the expansion of an existing one.

WWF Malaysia has expressed concern over the project, saying it is a threat to the environment and the lives of the people of Sabah. The organization has urged the government to reconsider the project and to take steps to protect the environment and the people of Sabah.

The Tawau gold mining project is a large-scale project that will involve the construction of a new mine and the expansion of an existing one. The project is located in Sabah, Malaysia, and is a joint venture between the Sabah Development Corporation (SDC) and the Tawau Gold Mining Project (TGMP).

WWF Malaysia has expressed concern over the project, saying it is a threat to the environment and the lives of the people of Sabah. The organization has urged the government to reconsider the project and to take steps to protect the environment and the people of Sabah.

The Tawau gold mining project is a large-scale project that will involve the construction of a new mine and the expansion of an existing one. The project is located in Sabah, Malaysia, and is a joint venture between the Sabah Development Corporation (SDC) and the Tawau Gold Mining Project (TGMP).

WWF Malaysia has expressed concern over the project, saying it is a threat to the environment and the lives of the people of Sabah. The organization has urged the government to reconsider the project and to take steps to protect the environment and the people of Sabah.

# TAWAU GOLD MINING

Project title	Issues and concerns	Options and recommendations
<p>TAWAU GOLD MINING</p> <p><i>*No EIA for phase 2</i></p>	<ul style="list-style-type: none"><li>■ Phase 2 for the Tawau Gold Mining consists of 525 ha</li><li>■ Phase 2 current land cover is <b>good value forest</b> as seen from recent satellite data. It was previously a Class 1 Forest Reserve.</li><li>■ The proposed mining will inevitably cause <b>deforestation</b> that contributes to carbon emissions (a global impact)</li><li>■ Extremely sensitive site due to presence of critically endangered <b>orang-utan</b>.</li><li>■ The area is also utilized by <b>Bornean elephants</b> and if converted to other non-forest land use it will increase <b>human elephant conflict</b> in the area</li><li>■ Potential <b>pollution</b> of water sources affecting nearby communities</li></ul>	<ul style="list-style-type: none"><li>■ To <b>not continue with Phase 2 mining</b></li></ul>

