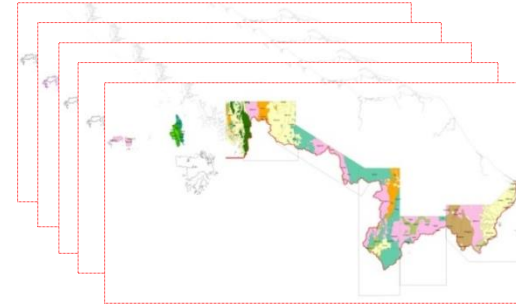




# Geological Database



## layers

3 groups 6 layers

	Group	Layer Name	ArcGIS Feature	Data
1	Geology	Geology	Polygon	Rock unit
2	Geologic Structure	Structure	Line	Fault, Anticline, Syncline with plunging .....
3		Strike_Dip	Point	strike and dip of bed, overturn bed, and joint .....
4	Geologic Site	Mineral	Point	Mineral deposit, Mineral occurrence, Mine..
5		Fossil	Point	Fossil localities.....Group, Type, Name
6		Other_Site	Point	Hot spring, Quarry, Borehole, Misc

## GIS Technic ..... Compile Geology

### 1. Changed attribute : *changed rock unit name , changed rock unit symbol , changed age*

Changed Rock unit name T1-6 = 59 >>> Compile = 48

Ex: Sam Nak O formation >>> Phun Phin Formation

Changed Rock unit symbol T1-6 = 74 >>> Compile = 58

Ex: Khlong Khon Formation (Trkh) >>> Khlong Khon Formation (Trkk)

Yaha Formation (Ckp/yh,Ckp/yh1,Ckp/yh2) >>> Yaha Formation (Ckp/yh)

Changed Age

T1-6 = 16 >>> Compile = 11

Ex: Superficial Deposits

(Holocene, Pleistocene , Pleistocene-Holocene , Quaternary) >>> (Quaternary , Neogene)

(Silurian - Devonian) >>> (Devonian)

# Sedimentary and Metamorphic Rocks

Transect 1-6 (32 names : 39 symbols : 12ages)	Compile (28 names : 30 symbols : 9 ages)
1. Tarutao Group (Ett)	1. MachinchangGroup/Tarutao Group (Emc/tt)
2. Hulor Member/Ao Makham Formation (Ehl/mk)	2. Hulor formation/Ao Makham Formation (Ehl/mk)
3. Anak Datai Member/Ao Tami Formation (Edt/tm)	3. Anak Datai formation/Ao Tami Formation (Ead/tm)
4. Ao Mo Lae Formation (EOml)	4. Chinchin formation/Ao Mo Lae Formation (Ecc/ml)
5. Jemuruk Member/Talo Wow Formation (Ojm/tw)	5. Jemuruk formation/Talo Wow Formation (Ojm/tw)
6. Setul Formation/Thung Song Group (Osst/ts) 7. Kaki Bukit Member/Pante Malaka Formation (Okb/pm) 8. Lae Tong Formation (Olt) Tanjong Dendang Member/Lae Tong Formation (Otd/lt) 9. Rang Nok Formation (Orn)	6. Kaki Bukit formation/Thung Song Group (Okb/ts1) (Okb/ts2) (Okb/ts3)
10. Kroh formation/Betong Formation (SDkr/bt) Kroh formation/Betong Formation (Argillaceous) (SDkr/bt(ag)) Betong Formation (SDBt1, SDBt2)	7. Kroh Formation/Betong Formation (SDkr/bt)
11. Pa Samed Formation (SDps)	8. Langgun formation/Jentik/Pa Samed Formation (Dlg/jt/ps)
12. Khuan Klang Formation (Ckk)	9. Rebak/Wang Kelian/Khuan Klang Formation (Crb/wk/kk)
13. Kubang Pasu/Yaha Formation (Ckp/yh) Kubang Pasu/Yaha Formation (Ckp/yh, Ckp/yh1, Ckp/yh2) Yaha Formation (Ckp/yh, Ckp/yh1, Ckp/yh2)	10. Kubang Pasu/Yaha Formation (Ckp/yh)
14. Tiang schist (Cts)	11. Tiang formation (Cts)
15. Selang Member/Khao Phra Formation (Psl/kp)	12. Selang Member/Khao Phra Formation (Psl/kp)

**Transect 1-6 (32 names : 39 symbols : 12 ages)**
**Compile (28 names : 30 symbols : 9 ages)**

16. Khao Chao Formation (Pkc)	<b>Symbol</b>	13. Lembong member/KhaoChao Formation (Plb/kc)
17. Sri Paen formation (Psp)		14. Sri Paen formation (Psp)
18. Tham Kachaeng formation (Ptk)		15. Tham Kachaeng formation (Ptk)
19. Mangga / Ka Lu Bi/Ai Ka Po formation (CPmgag/kl, CPmgar/ak)	<b>Age</b>	16. Mangga formation/Ka Lu Bi formation (Pmg/kl)
20. Taku schist / Buke Ta formation (CPTk/bt)	<b>Age</b>	17. Taku formation/Buke Ta Formation (Ptk/bt)
21. Lubok Sireh formation/ <b>Khao Phra Formation</b> (Psr/kr)	<b>Name</b>	18. Lubok Sireh formation/ <b>Kaeng Krachan Group</b> (Psr/kk)
22. Chuping/ <b>Chaiburi Formation</b> (Trch3/cb)		19. Chuping/ <b>Khao Rup Chang Formation/Chaiburi Formation</b> (PTRch/kc/cb)
23. Chuping/ <b>Khao Rup Chang Formation</b> (Pch1/kc)	<b>Name , Age</b>	
24. Tiang schist / Ban Sa formation (SDts/bs)	<b>Symbol</b>	20. Ban Sa Formation (PTR)
25. Ai Ba Lo formation (Ptrab)		21. Ai Ba Lo formation (Ptrab)
26. Rhythmite unit/Na Thawi Formation (Trrt/nt)	<b>Symbol</b>	22. Bukit Merah formation/Nathawi Formation (Trbm/nt)
27. Conglomeratic unit /Khuan Chedi Formation (Trcg/kc)	<b>Symbol</b>	23. Pedu formation/Khuan Chedi Formation (Trpd/kc)
28. Khlong Khon Formation (Trkh)	<b>Symbol</b>	24. Khlong Khon Formation (Trkk)
29. Bu Yong formation (Trby)		25. Bu Yong formation (Trby)
30. Kayu Hitam formation/Lam Thap Formation (Kkh/lt)		26. Kayu Hitam formation/Lam Thap Formation (Kkh/lt)
31. Saiong Beds/ <b>Sam Nak O formation</b> (Kss/sn)	<b>Name</b>	27. Saiong formation/ <b>Phun Phin Formation</b> (Kso/pp)
32. Arang/Sadao formation (Tar/sd)	<b>Age</b>	28. Arang/Sadao formation (Nar/sd)

# Superficial Deposits

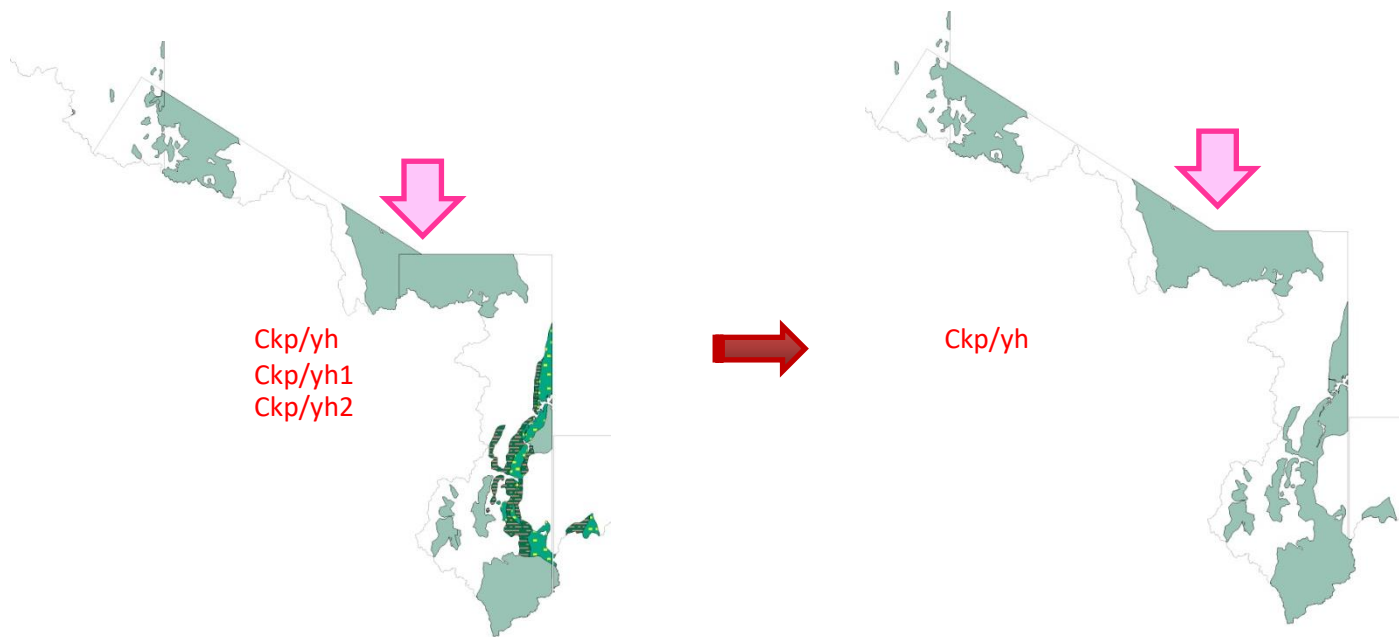
Transect 1-6 (12 names : 18 symbols : 4 ages)	Compile (8 names : 10 symbols : 2 ages)
1. Tangga /Hat Yai formation (Qptg/hy)	1. Tangga /Hat Yai formation (Qptg/hy)
2. Tanah Merah/Nenering/Ai Yoe Boe Chang Gravel beds (Qnn/ay)	2. Nenering beds/Ai Yoe Boe Chang Gravel beds (Qpnn/ay)
3. Terrace deposit (Qtp) <b>Name</b>	3. Simpang Formation/Waeng formation (Qpssp/wg)
4. Simpang Formation/Waeng formation (Qpctsp/wg, Qpssp/wg)	
5. Beruas Formation/Sungai Kolok formation (Qhchbr/sk, Qhfpbr/sk, Qhnlbr/sk)	
6. Alluvial deposits (Qal) <b>Name, Symbol</b>	4. Beruas Formation/Sungai Kolok formation
7. Alluvium (Qal)	(Qhbr/sk, Qhbr/sk1, Qhbr/sk2)
8. Beruas/Sungai Kolok Formation (Qhbr/sk1, Qhbr/sk2)	
9. Beruas Formation/Talo U Dang formation (Qbr/tu)	5. Beruas Formation/Talo U Dang formation (Qhbr/tu)
10. Port Weld Member/Ao Son formation (Qpw/as) <b>Symbol</b>	6. Port Weld Member/Ao Son formation (Qhpw/as)
11. Matang Gelugor Member/Ao Chak formation (Qmt/ac) <b>Symbol</b>	7. Matang Gelugor Member/Ao Chak formation (Qhmg/ac)
12. Gula Formation/Tak Bai formation <b>Symbol</b> (Qhrbgl/tb, Qhtitfgl/tb, Qhgl/tb, Qhtitfgl/tb, Qhgl/tb)	8. Gula Formation/Tak Bai formation (Qhgl/tb)

# Igneous Rocks

Transect 1-6 (17 names : 17 symbols : 3 age)	Compile (12 names : 2 symbols)
1. Ku Mung volcanic complexes (PTrvkm)	1. Kumung Ophiolite Suite (Trkm)
2. Tanah Merah/Muno volcanic (PTrvtn/mn)	2. Tanah Merah/Muno volcanic (Trtm/mn)
3. Raya/Adang Granite (Trgrry/ad) 4. Kuah/Rawi Granite (Trgrkh/rw)	3. Adang Granite (Trgrad1) (Trgrad2)
5. Bukit China/Khao Chin granite (Trgrbc/kn)	4. Bukit China/Khao Chin Granite (Trgrbc/kc)
5. Trgrkm/kk	5. Koh Mai/Pra Kob Granite (Trgrkm/pk)
6. Rimba Telui/Si Nakhon granite (Trgrrt/sn) 7. Batu Puteh/Pa Ret Tu granite (Trgrbp/pr)	6. Rimba Telui/Si Nakhon granite (Trgrrt/sn1) (Trgrrt/sn2)
8. Chantharat Granite (Trgrch) Chantharat Granite (Trgrch)	7. Chantharat Granite (Trgrch)
9. Merah/Bu Do granite (Trgrmr/bd) 10. Bu Do Granite (Trgrbd) 11. Hala granite (Trgrhl)	8. Belum/Hala Granite (Trgrbl/hl1) (Trgrbl/hl2)
12. Kemahang/Sukhirin Granite (Trgrkg/su) 13. Kenerong Granite/Ba La granite (Kgrkn/bl)	9. Kemahang/Sukhirin Granite (Trgrkm/sk1) (Trgrkm/sk2)
14. Kabut Granite (Trgrkt)	10. Kabut Granite (Trgrkt)
15. La Sa granite (Trgrls)	11. La Sa granite (Trgrls)
17. Lawar/To Mo Granite (Kgrlw/tm)	12. Lawar/To Mo Granite (Kgrlw/tm)

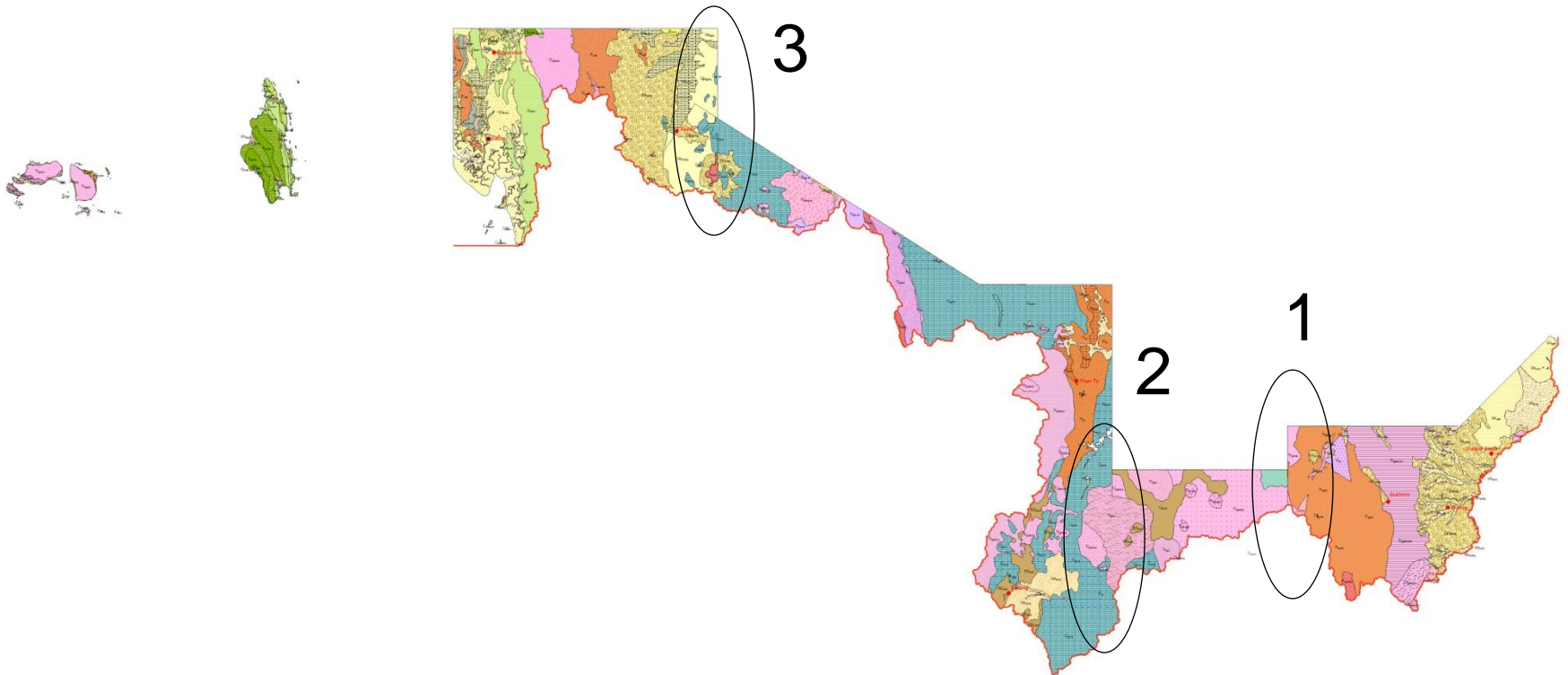
## GIS Technic ..... Complie Geology

### 2. Dissolved graphic : *dissolved rock unit*

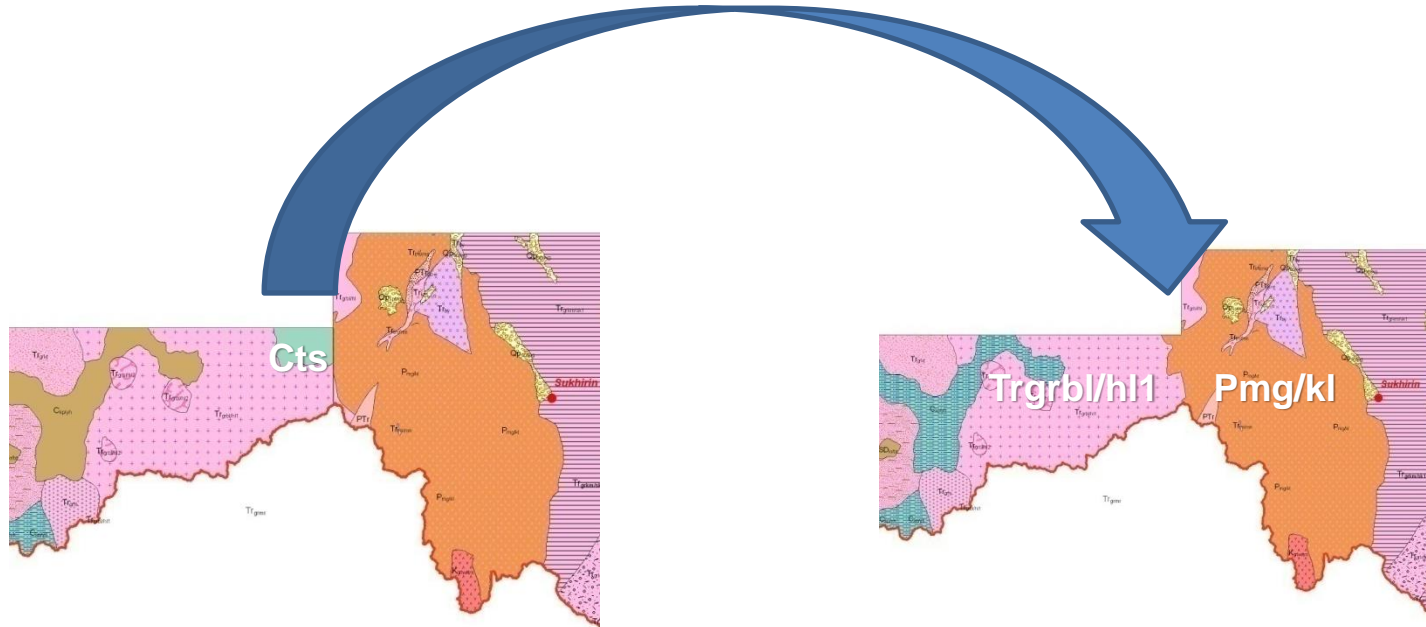


## GIS Technic ..... Complie Geology

### 3. Edit graphic between transect : *edit geologic boundary*

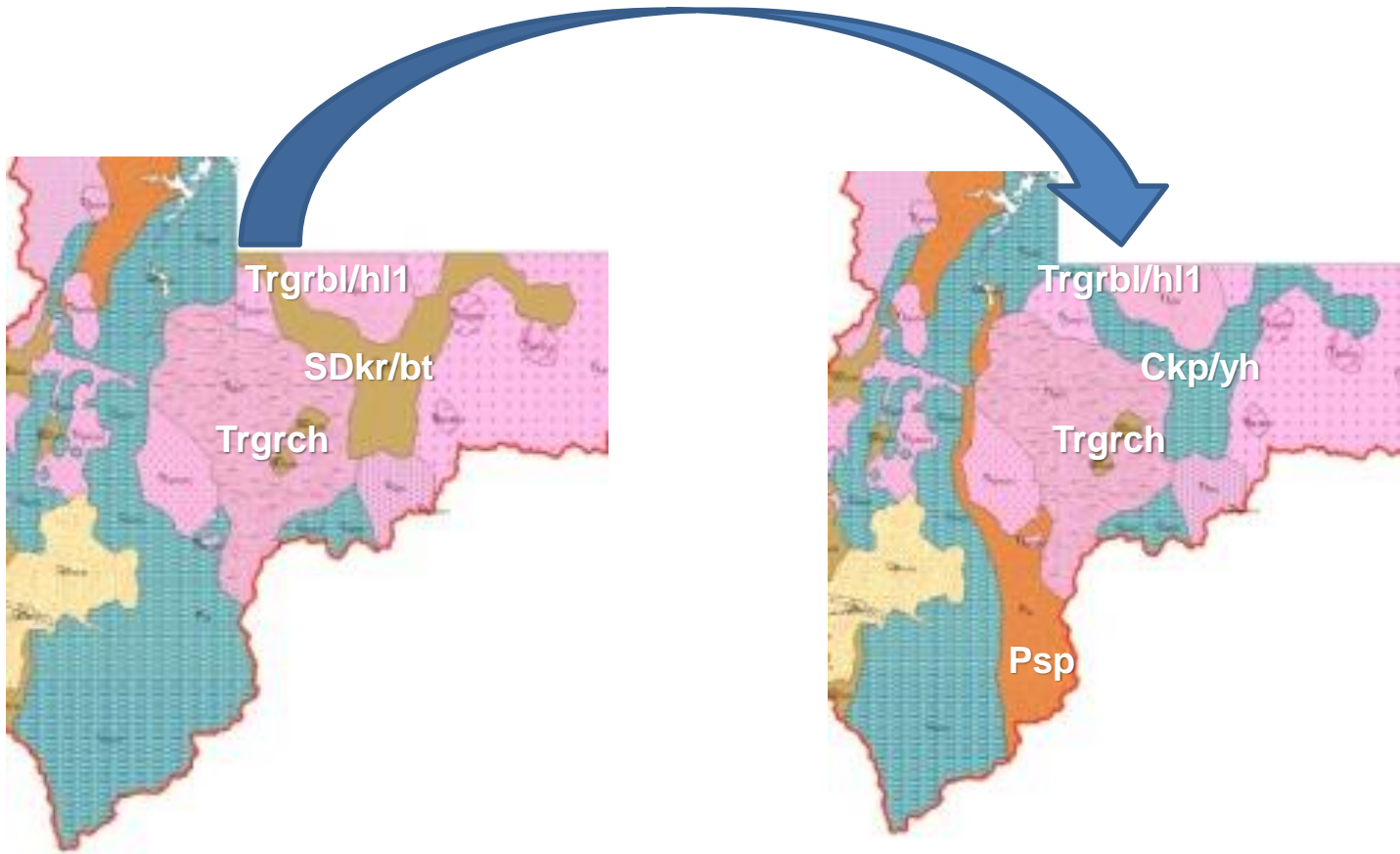


# 1. Between T5 – T2



**Tiang formation (Cts) >>> Mangga formation/Ka Lu Bi formation (Pmg/kl)  
Belum/Hala Granite (Trgrbl/hl1)**

## 2. Between T3 – T5



**Kroh Formation/Betong Formation(SDkr/bt) >>> Kubang Pasu/Yaha Formation (Ckp/yh)**

**Edit boundary >>> Belum/Hala Granite (Trgrbl/hl1)  
Chantharat Granite (Trgrch)**

**Add polygon >>> Sri Paen formation (Psp)**

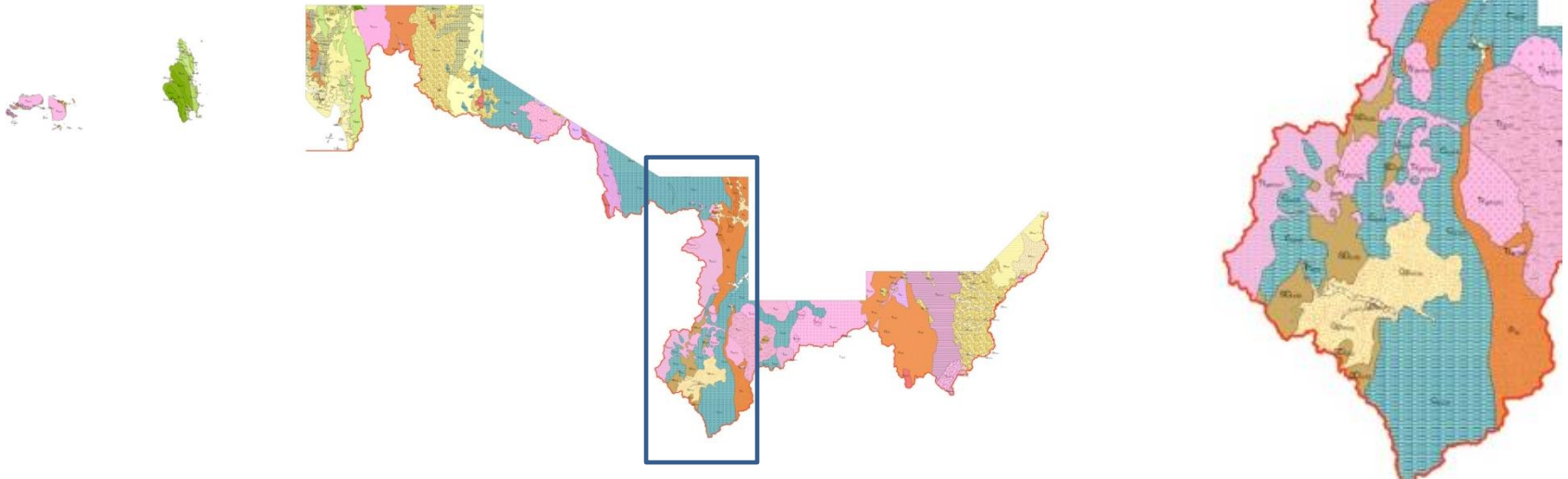
### 3. Between T4 – T1



Coming soon

## GIS Technic ..... Complie Geology

### 4. Zoom in and Check each area



Coming soon

# Sedimentary and Metamorphic Rocks



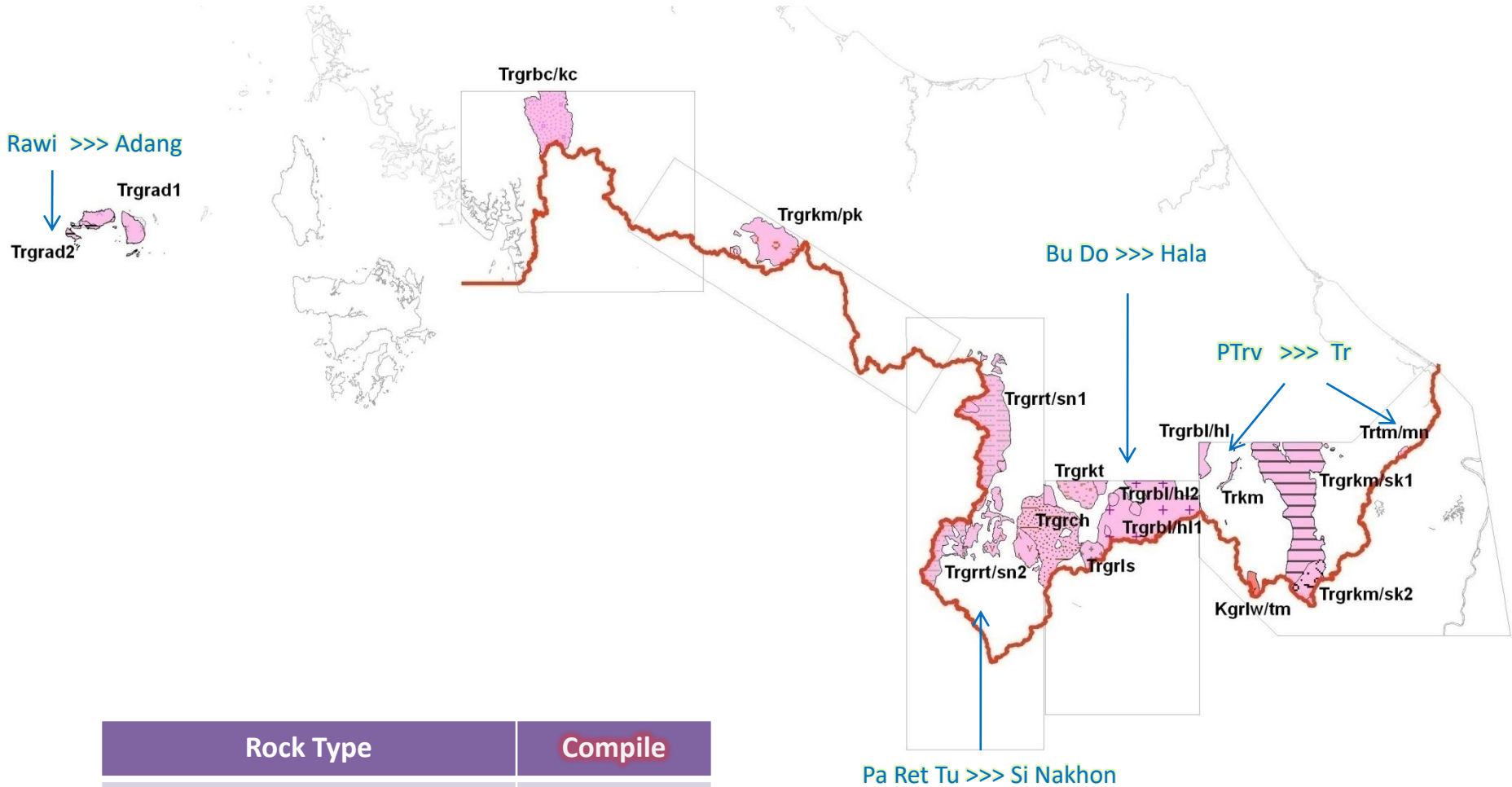
Rock Type	Compile
<b>Sedimentary and Metamorphic Rocks</b>	
- Rock unit name	28
- Rock unit symbol	32
- Age	9

# Superficial Deposits

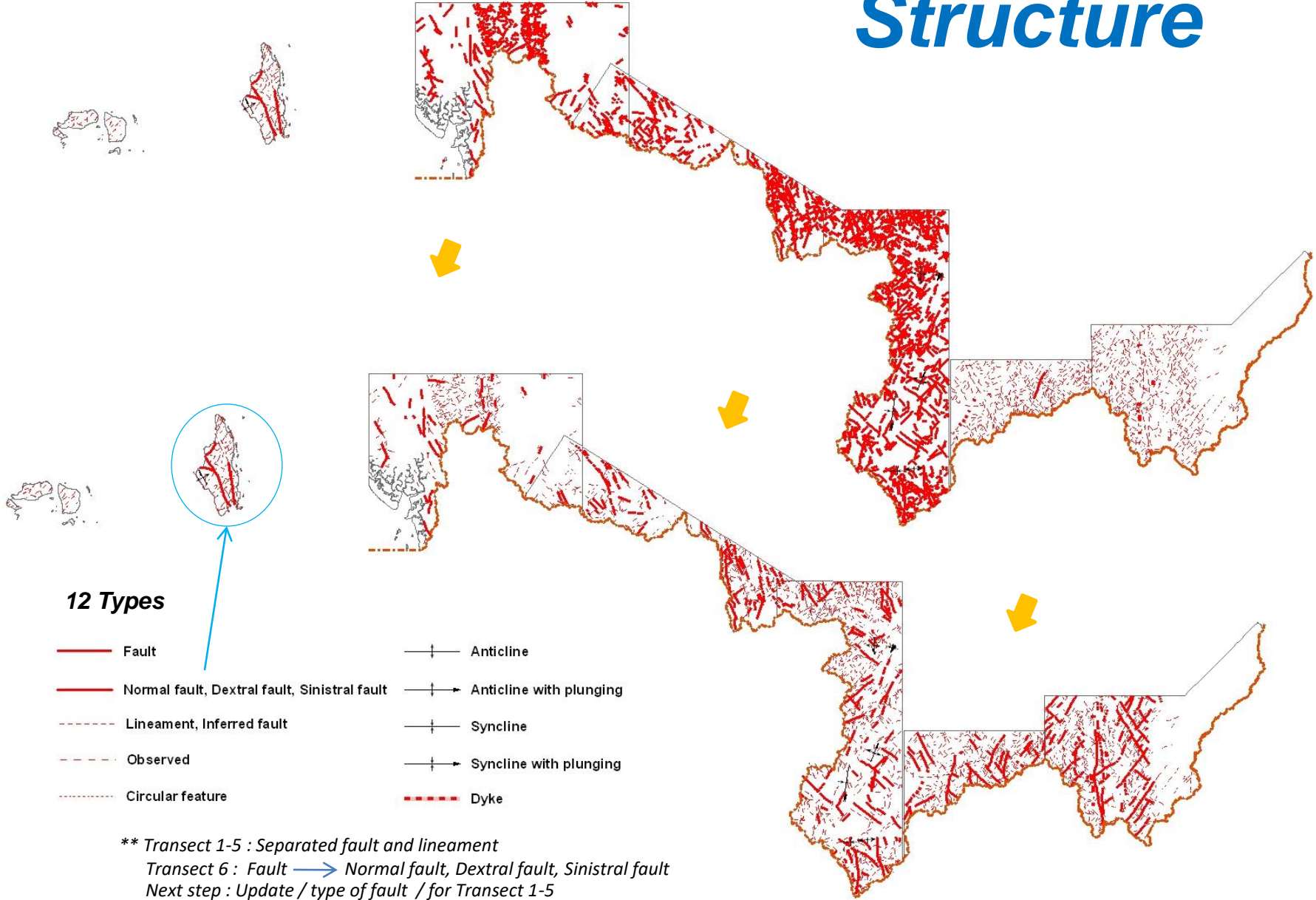


Rock Type	Compile
<b>Superficial Deposits</b>	
- Rock unit name	8
- Rock unit symbol	10
- Age	2

# Igneous Rocks



# Structure

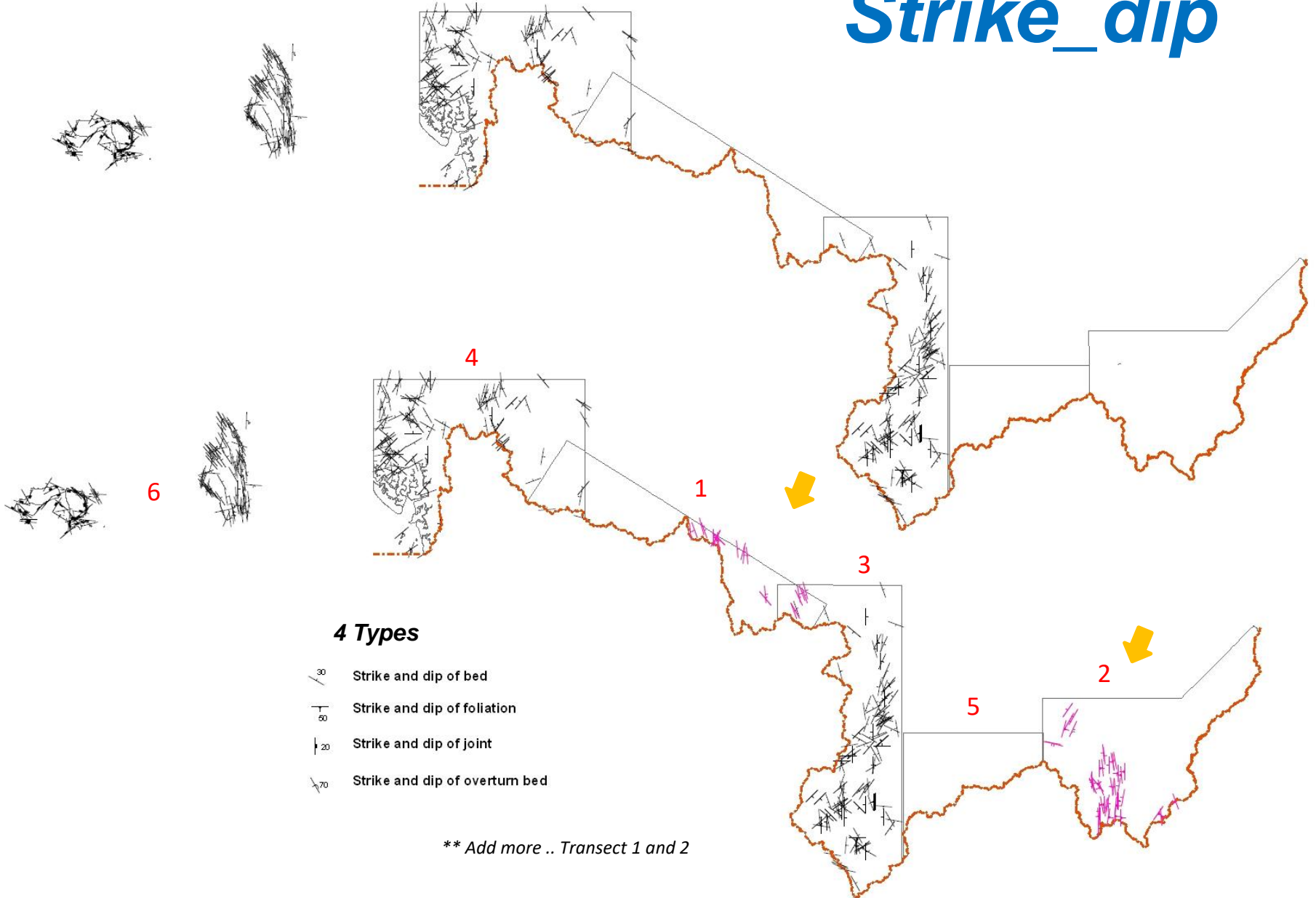


**12 Types**

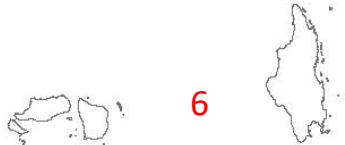
- Fault
- Normal fault, Dextral fault, Sinistral fault
- Lineament, Inferred fault
- Observed
- Circular feature
- Anticline
- Anticline with plunging
- Syncline
- Syncline with plunging
- Dyke

**\*\* Transect 1-5 : Separated fault and lineament**  
**Transect 6 : Fault → Normal fault, Dextral fault, Sinistral fault**  
**Next step : Update / type of fault / for Transect 1-5**

# Strike\_dip



# Mineral

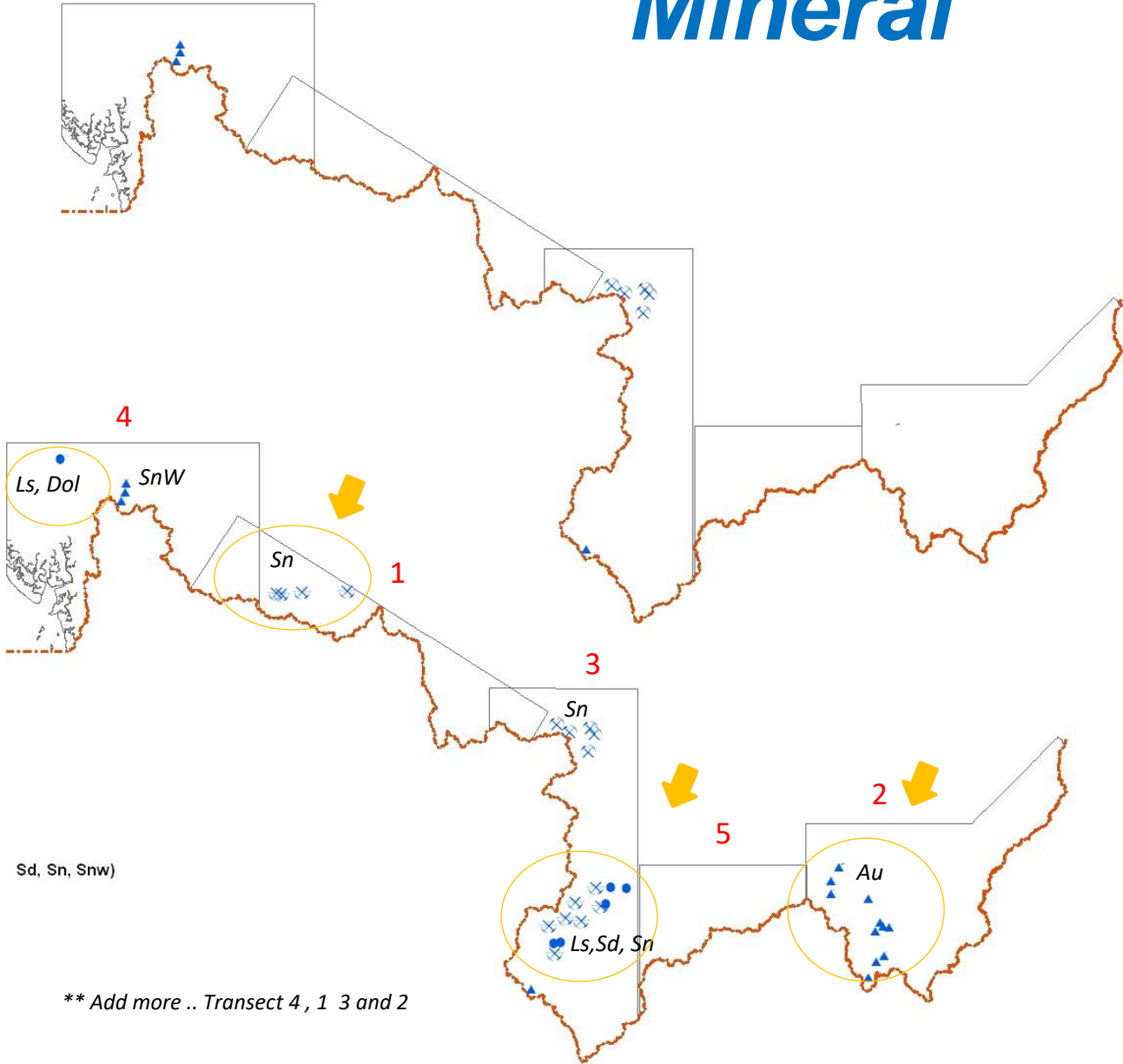


6

## 4 Types

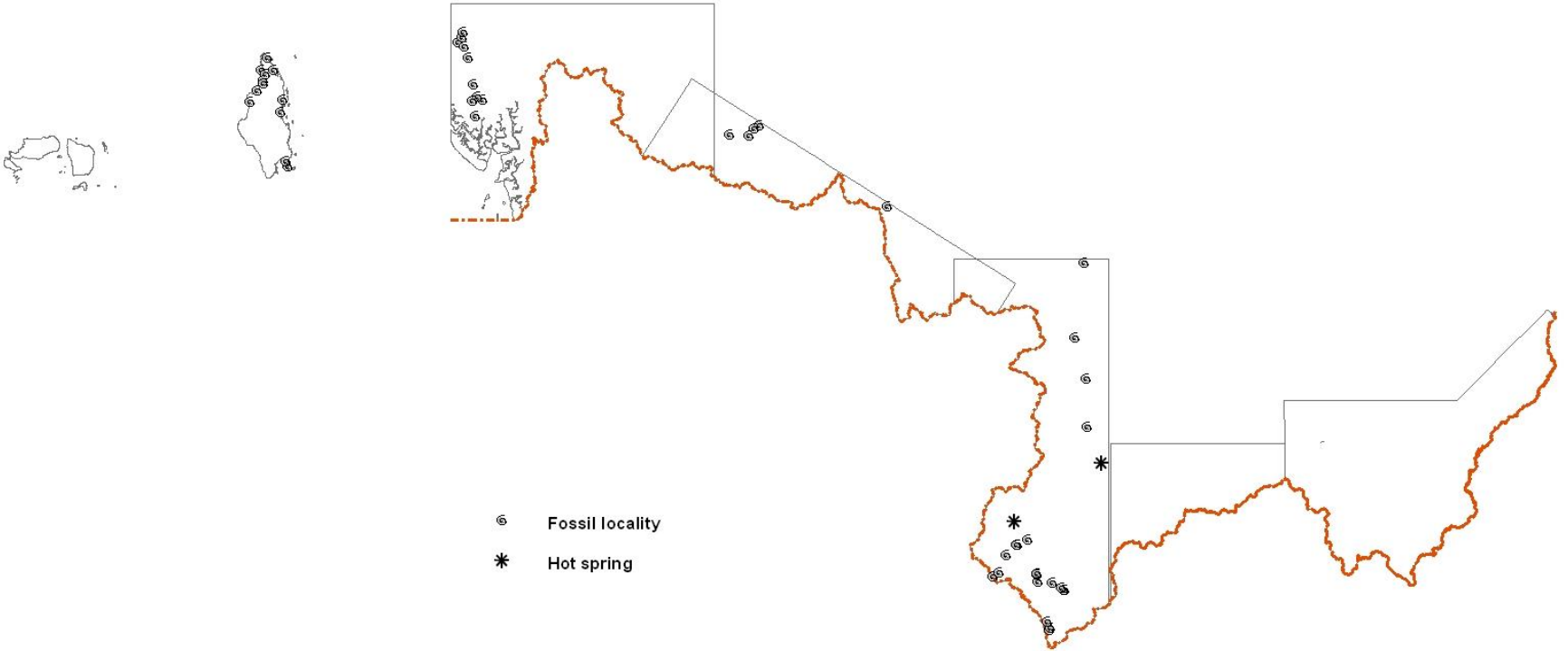
- ⊗ Mine
- ⊗ Mine (abandoned)
- Mineral deposit
- ▲ Mineral occurrence

(Au, Ba, Ls, Dol, Mn, Sd, Sn, Snw)



\*\* Add more .. Transect 4, 1 3 and 2

# Other\_site



*Thank you very much*

*Terima kasih*

*ขอบคุณค่ะ*

