

## EagleEye.

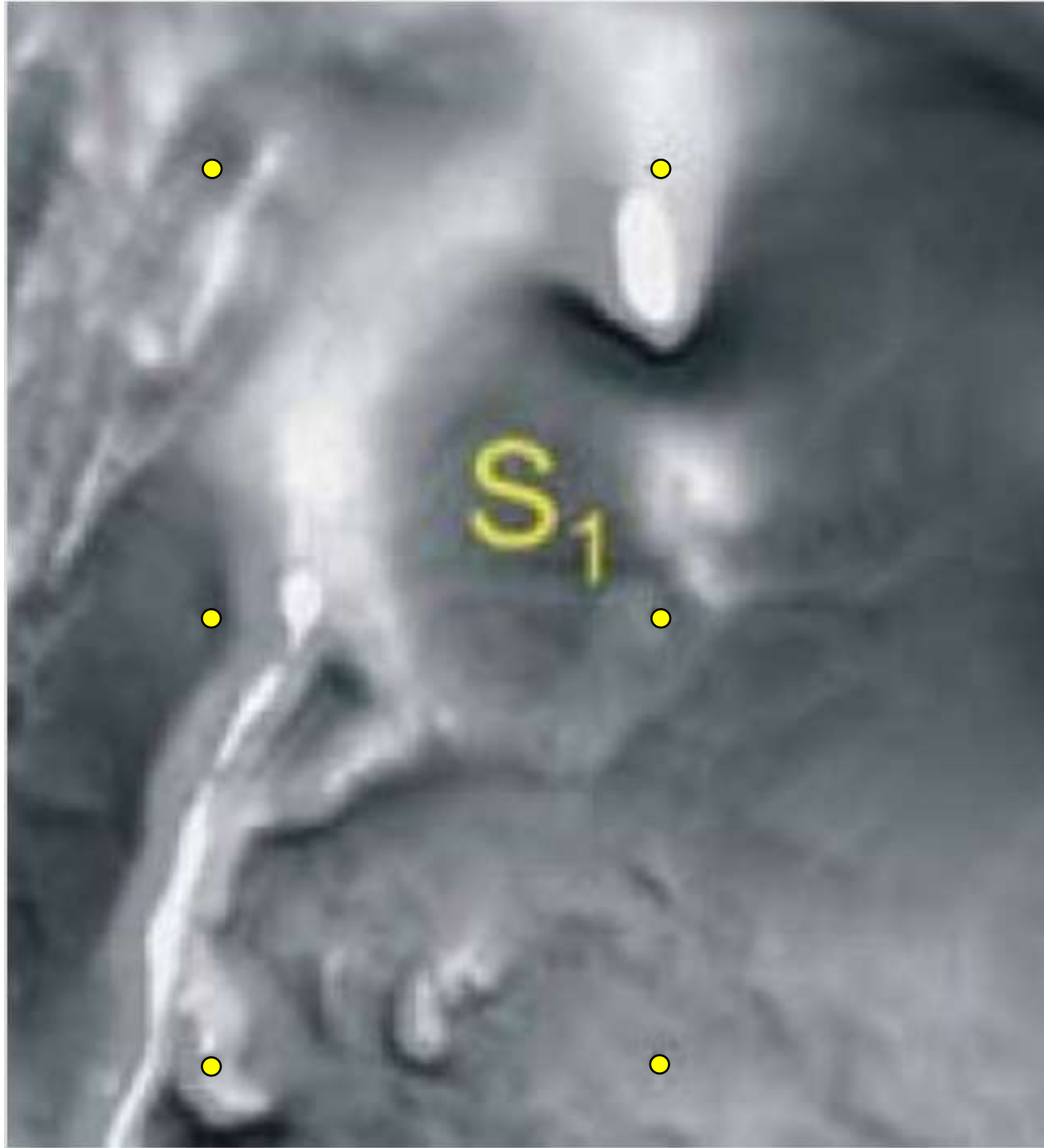
This coarse magnetics image is an ideal starting image to use my EagleEye system on to obtain real geology.

Thus, one is able to categorise target areas based on real structural and lithological geology. **The following slides show how this is done.**

**Currently I consult using EagleEye for explorationists with great satisfaction by all involved.**

How much exploration money will your company save if you can obtain real geology plans (and sections) before you spend any other exploration funds?

**1**



**Chris Shaw LinkedIn.  
Where would you drill  
Primary Target gold activity?**

**Chris Shaw original slide.  
No detailed structural  
geology can be seen or used  
to target mineralisation.**

**Chris asked for suggestions  
of target areas to drill.**

**There were many  
suggestions none of which  
used structural, stratigraphic  
or lithological geology –  
guesses??**

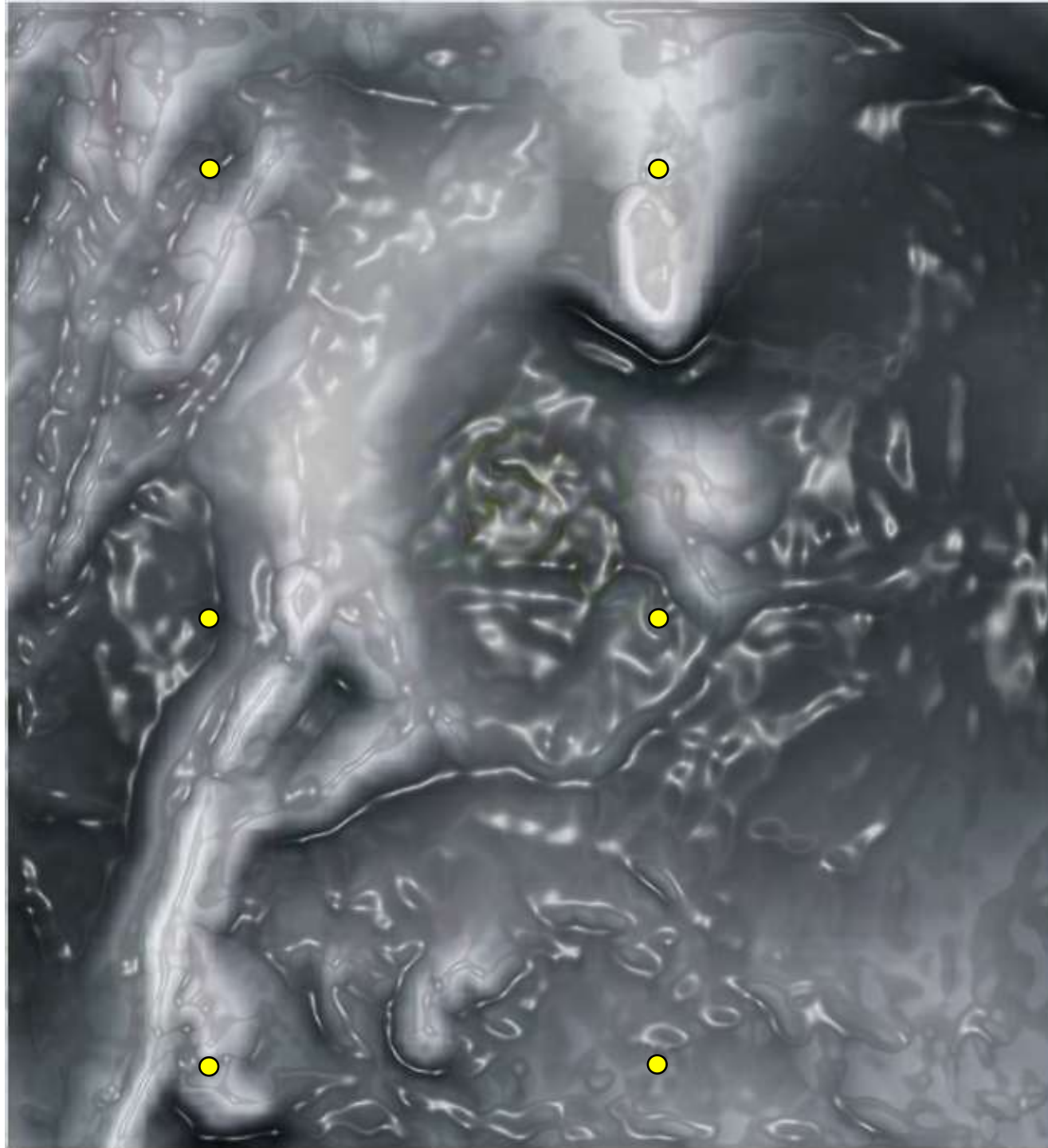
**That is because no-one can  
obtain geology from these  
plans – except .....**

**Open the file and select 'fill  
page' and scroll to see how  
it is done!**

**● Georeference grid points  
10 km?**

# Objectives and EagleEye method of obtaining geology from images.

1. The objective of this exercise is to see if **EagleEye can produce good geology** from a very basic geophysical image.
2. There does **not appear to be geophysical software that can detect detailed geology from geophysical plans??**
3. EagleEye uses basically **free pattern recognition software** and sophisticated image sharpening systems from Microsoft.
4. We will examine the image that Chris Shaw wanted targets from to see if worthwhile **geology and gold exploration targets can be obtained.**
5. The exercise will be presented on a PDF but I will keep the whole PowerPoint exercise so if **geologists (and maybe geophysicists😊)** are keen to use **EagleEye themselves** they can ask me for the PowerPoint file and it will all be there for them to study and use on their projects.



Chris Shaw LinkedIn.

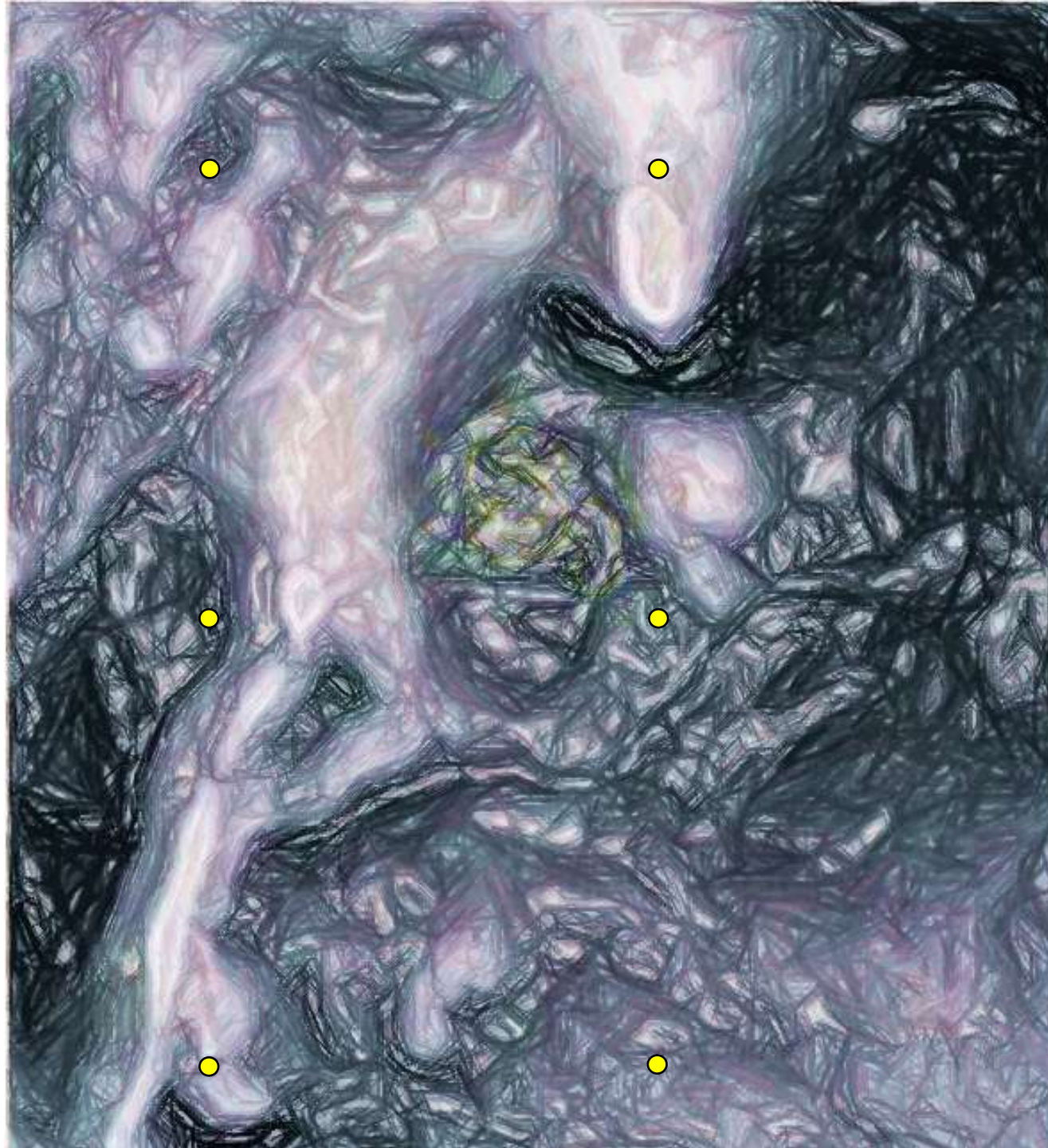
Where would you drill  
Primary Target gold activity?

**EagleEye plastic wrap  
(vertical sunangle) of  
cleaned original slide.**

Starting to highlight  
structure in both the low  
and high magnetics.

● Georeference grid points  
**10 km?**





Chris Shaw LinkedIn.

Where would you drill  
Primary Target gold activity?

**EagleEye pencil greyscale  
(pattern recognition) of  
cleaned original slide.**

Need to use this slide for  
the more detailed finer  
structural geology in the  
lower magnetic areas.

The structure in the higher  
magnetic areas is starting to  
appear.

● Georeference grid points  
**10 km?**





Chris Shaw LinkedIn.

Where would you drill  
Primary Target gold activity?

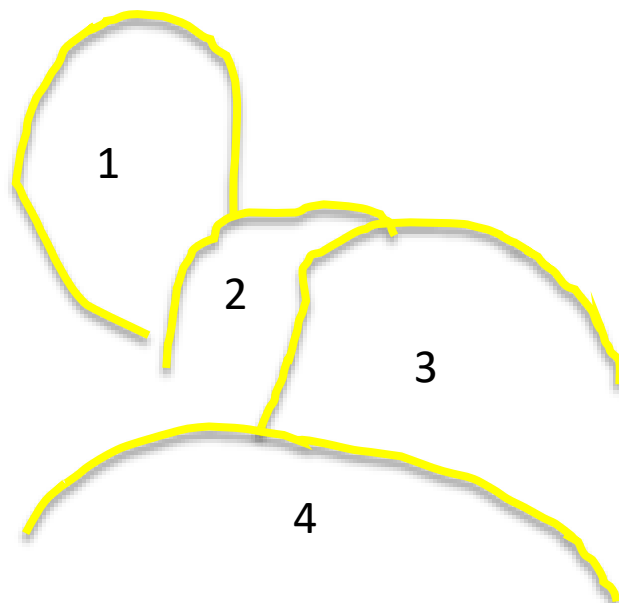
**EagleEye pencil greyscale  
(pattern recognition) of  
slide 4. Second iteration.**

Need to use this slide for  
the larger scale, more  
regional structural geology  
in the lower magnetic areas.  
The structure in the higher  
magnetic areas is starting to  
disappear.

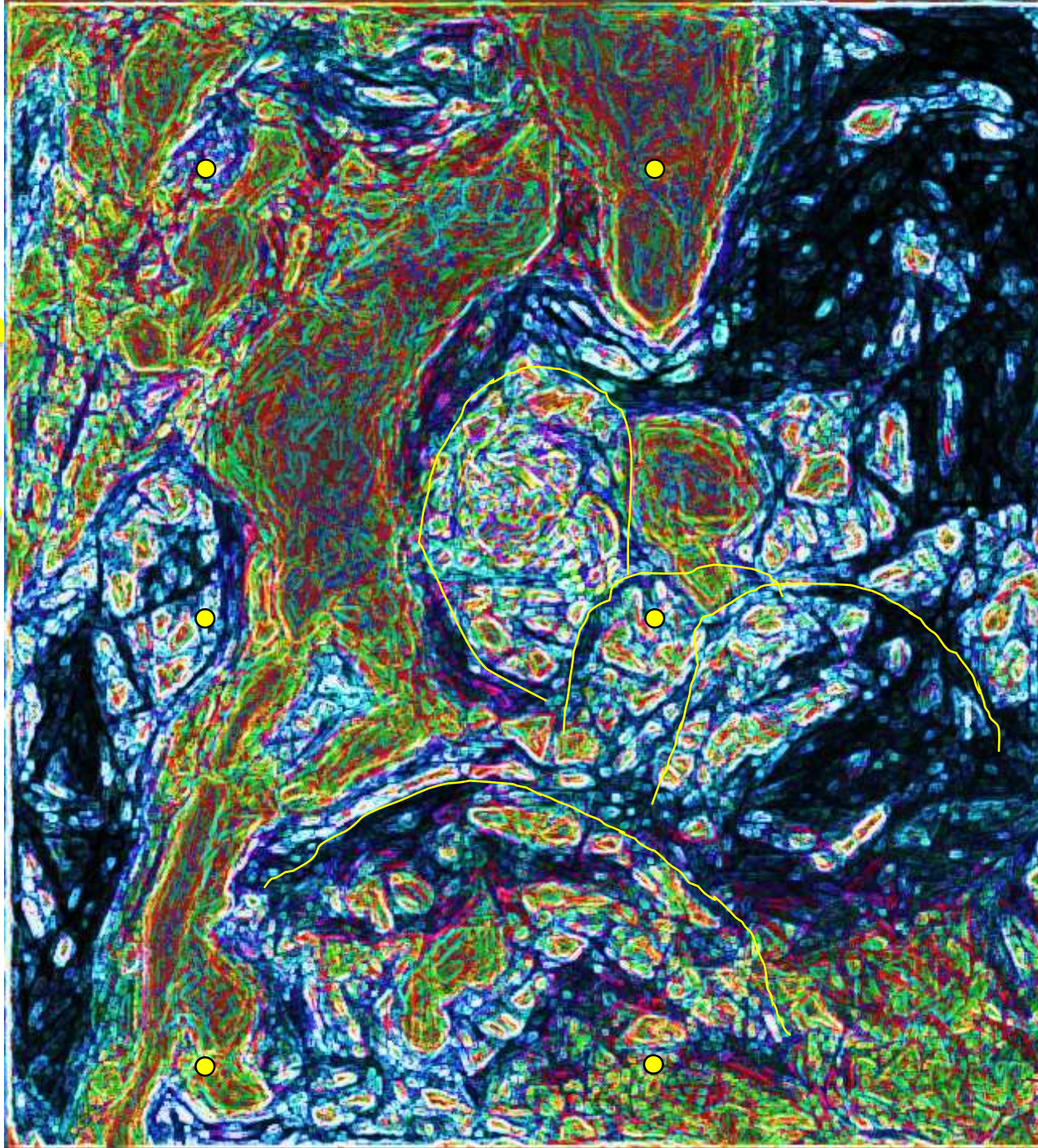
**Now need to interrogate  
high magnetics.**

● Georeference grid points  
10 km?





There appears to be a SE trend to batholith intrusions?



Chris Shaw LinkedIn.

Where would you drill  
Primary Target gold activity?

**EagleEye glow edges  
(eliminates regional  
gradient) of slide 6.**

Need to use this slide for  
the larger scale more  
regional structural geology  
in the lower magnetic areas.

**The structure in the higher  
magnetic areas is starting  
to resolve into stratigraphic  
or tectonic units.**

**This glow edges can be  
used to recolour the slide  
according to the greyscale.**

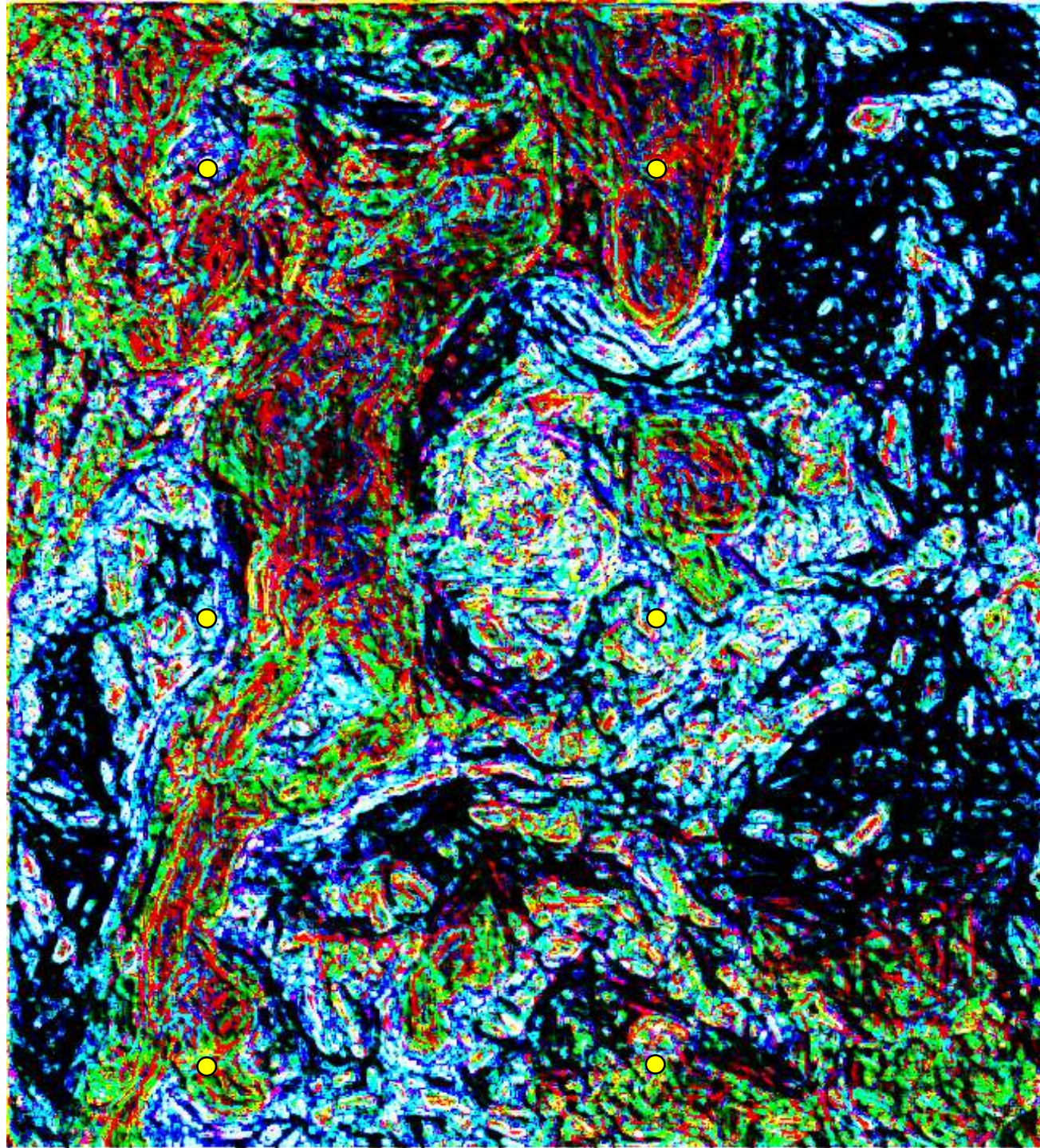
● Georeference grid points  
10 km?



## Adjusting focus to see different structures.

The next few slides show how one can look for different structures by adjusting the focus and width of structure being searched for.

This is similar to a camera seeing the leaves of a close tree but seeing the church in the background only on long focus – both clearly. However, this can not be done with one focus depth, hence the need for several slides to get complete structural information.



Chris Shaw LinkedIn.

Where would you drill  
Primary Target gold activity?

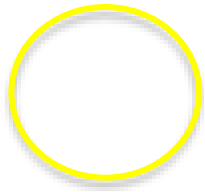
**EagleEye cement (separates out different domains) of slide 5.**

This slide further enhances the smaller scale more local NE and NW structural geology in the higher magnetic areas.

**The detailed structure (or lithology) in the higher magnetic areas is resolving into stratigraphic or tectonic units.**

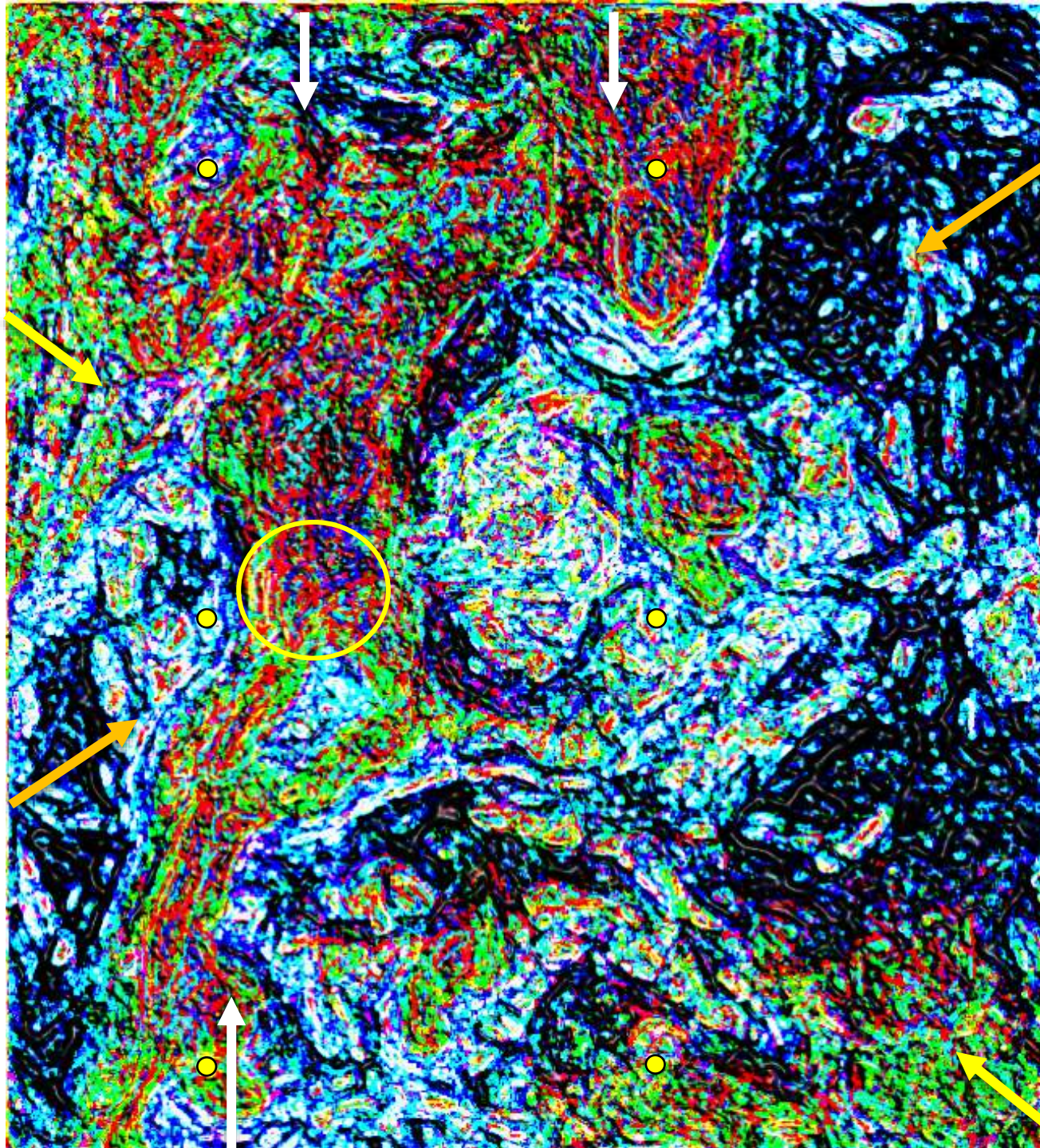
● Georeference grid points  
10 km?





Hill 50 type target

The thin NS, NE and NW structures in the high magnetics are highlighted. These are the important mineralising structures over most of the Yilgarn Craton.



Chris Shaw LinkedIn.

Where would you drill Primary Target gold activity?

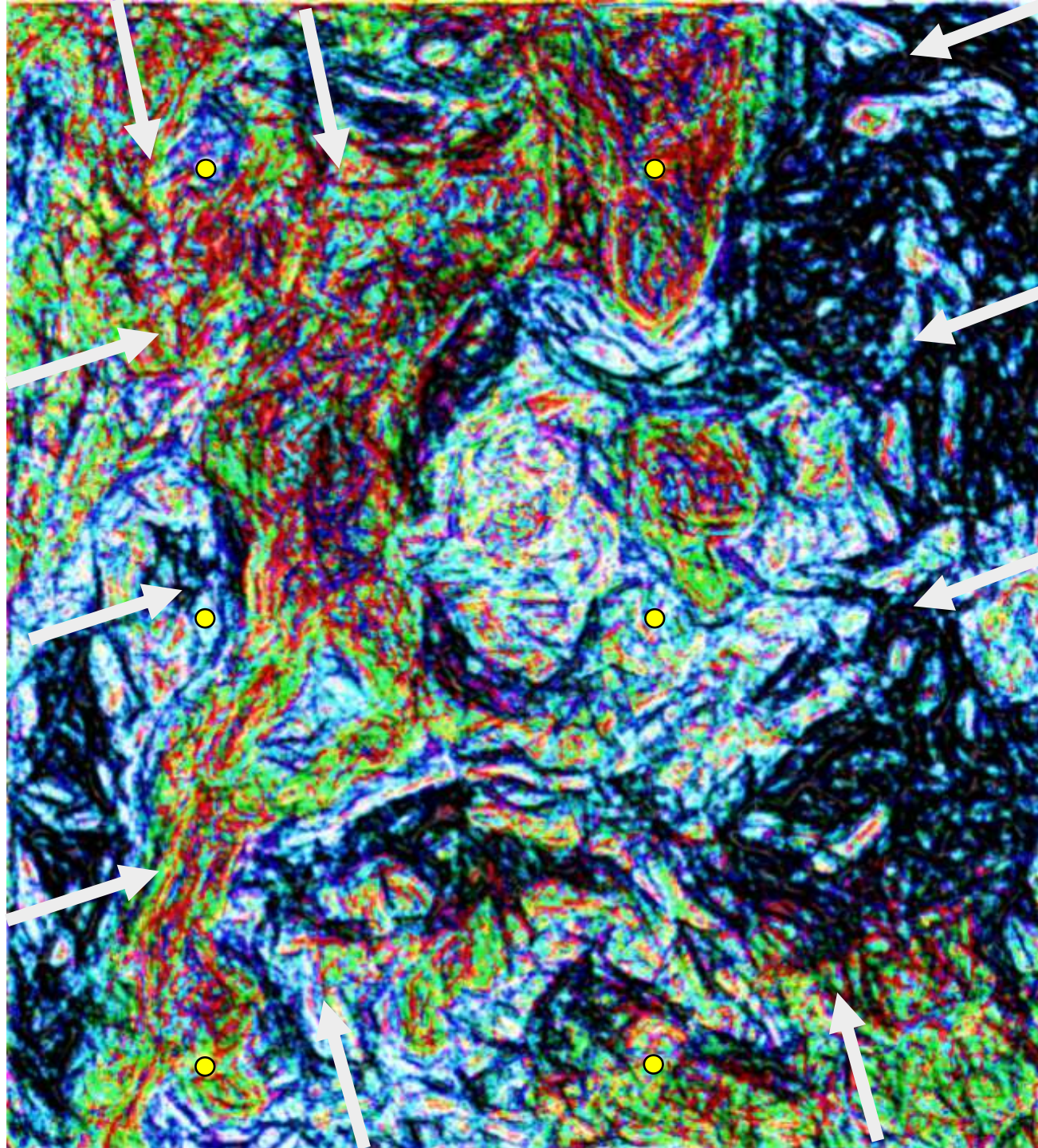
**EagleEye plastic wrap (vertical sunangle) of previous slide.**

Highlight differences between light and dark structures in both the low and high magnetics.

● Georeference grid points 10 km?







Chris Shaw LinkedIn.

Where would you drill  
Primary Target gold activity?

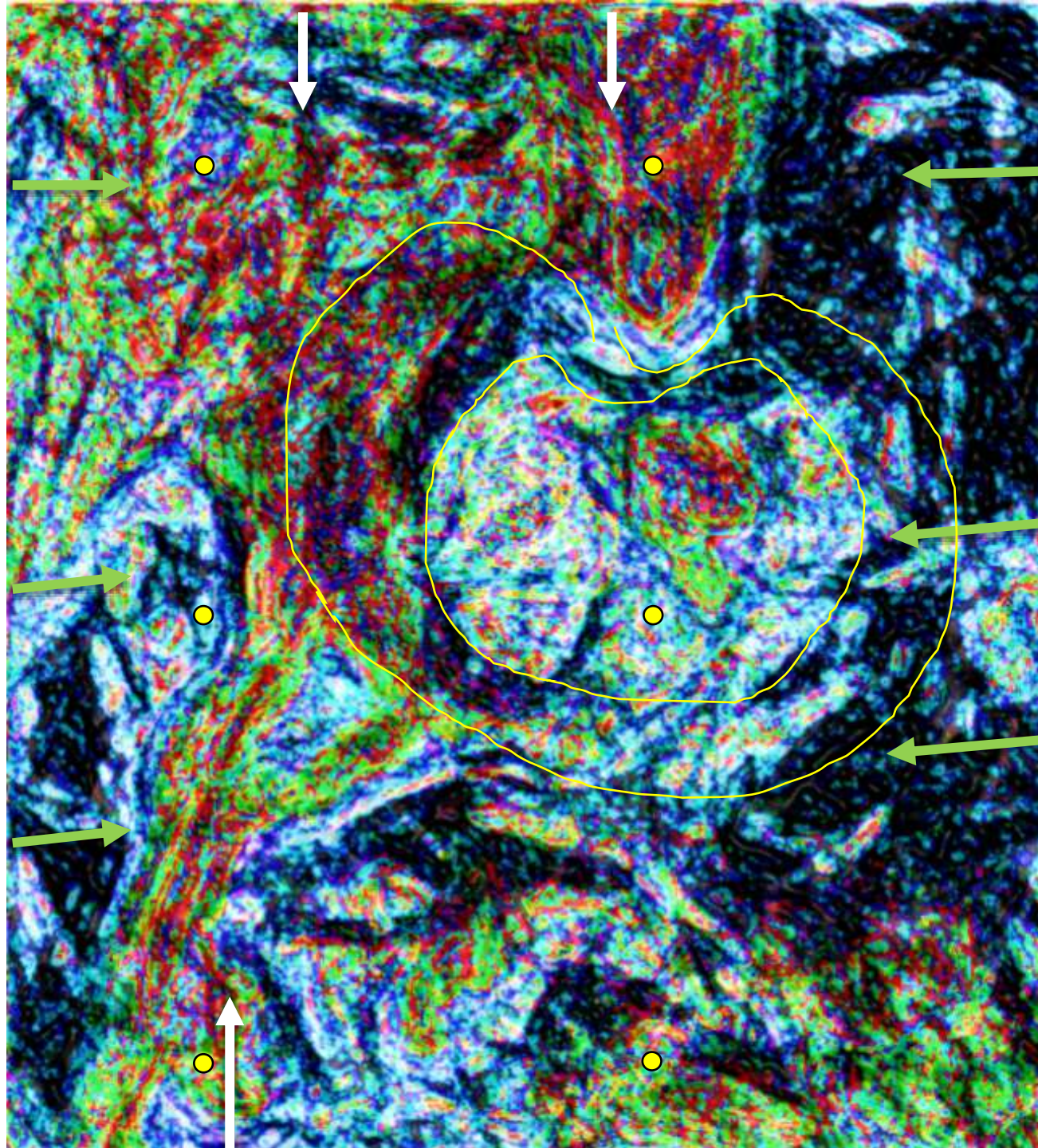
**EagleEye pencil greyscale  
(pattern recognition)  
of previous slide. Second  
iteration.**

Need to use this slide for  
the medium scale structures  
in all magnetic areas.

**Strong NNW and ENE  
structures are seen.**

● Georeference grid points  
10 km?





Chris Shaw LinkedIn.

Where would you drill  
Primary Target gold activity?

**EagleEye pencil greyscale  
(pattern recognition) of  
previous slide. Third  
iteration.**

Need to use this slide for  
the coarser structures in all  
magnetic areas.

Strong WNW and NNE  
structures are appearing.

**Strong NS and EW  
structures are seen.**

**Some may be artifacts but  
others have appeared on all  
previous slides.**

**The circular intrusive  
boundaries are clearly  
seen.**

● Georeference grid points  
10 km?





NW NE NS EW  
 Hill 50 BIF?? and  
 Meeka, Great Fingal,  
 Big Bell, type targets.

☆ Westonia, Granite hosted

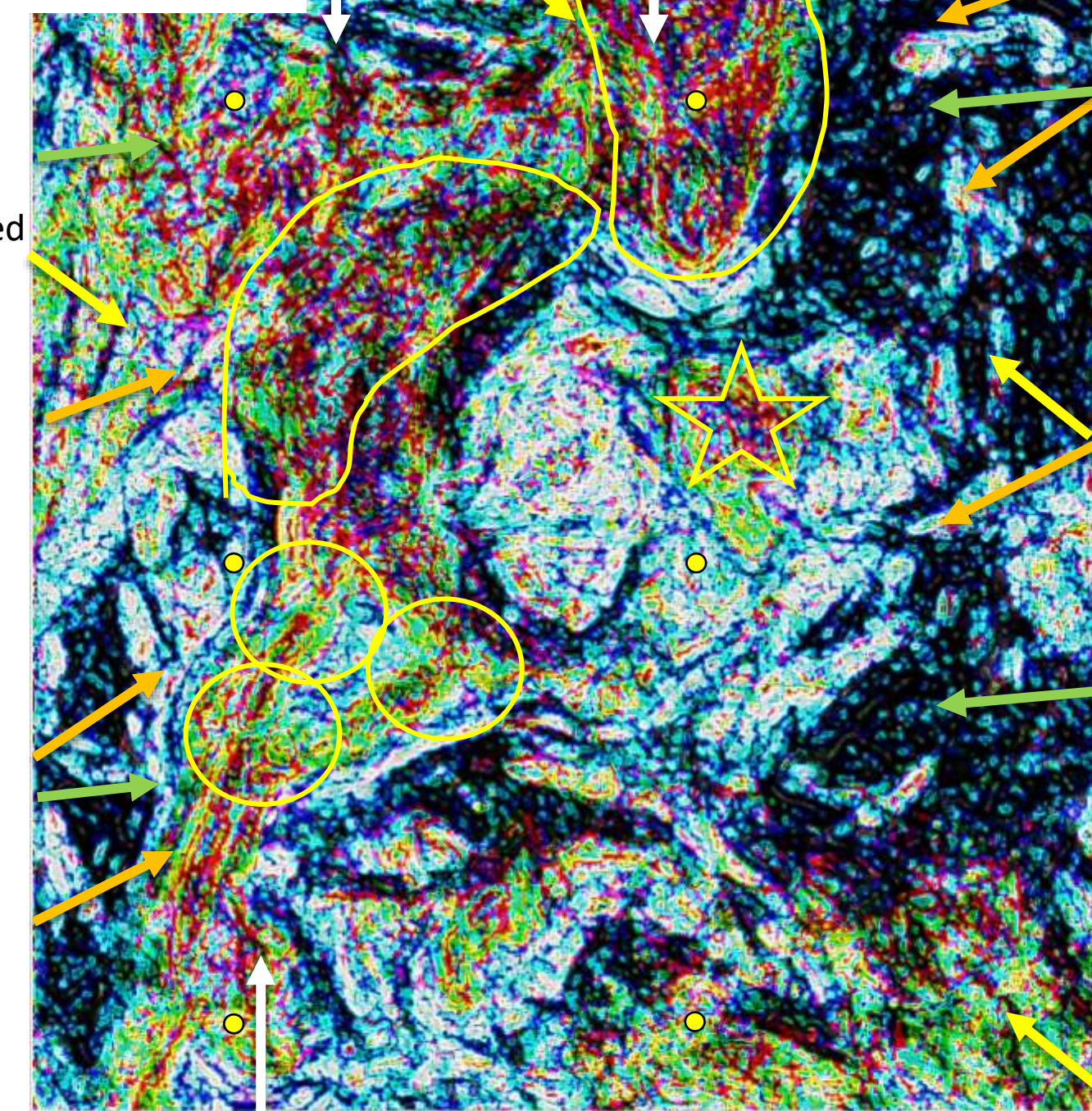
○ NW rim targets,  
 Norseman, St Ives,  
 Kalgoorlie, Wiluna.

Strong WNW, NW and ENE  
 structures and strong NS and  
 EW structures are seen in  
 this complicated high  
 magnetics area.

These are all good targeting  
 criteria in the Yilgarn Craton.

○ Top centre high magnetics  
 show south facing  
 ?folding/banding NS, ENE  
 and NW structures good  
 ?base metals? target.

# Targeting



Chris Shaw LinkedIn.  
 Where would you drill  
 Primary Target gold activity?

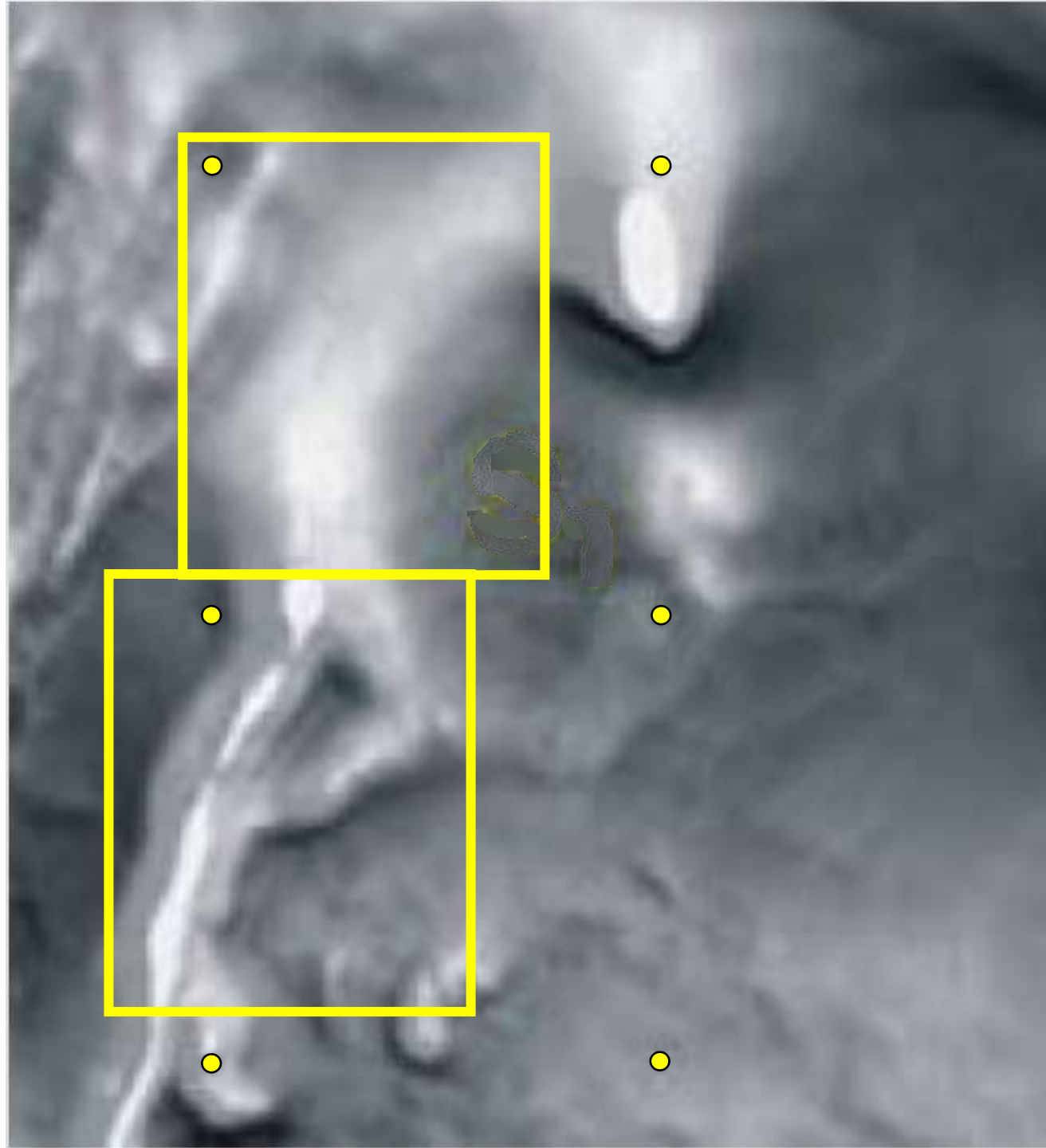
## Chris's original slide.



EagleEye used this image  
 to obtain the opposite,  
 coloured, geology plan  
 with targets.

● Georeference grid points  
**10 km?**

EagleEye  
starting point.



Chris Shaw LinkedIn.


**Where would you drill  
Primary Target gold  
activity?**


Cleaned the S off the  
original slide.


**We will look at the area  
inside the yellow boxes for  
gold exploration targets.**


● Georeference grid points  
10 km?




  
 NW NE NS EW


 Hill 50 BIF?? and Meeka, Great Fingal, Big Bell, type targets.

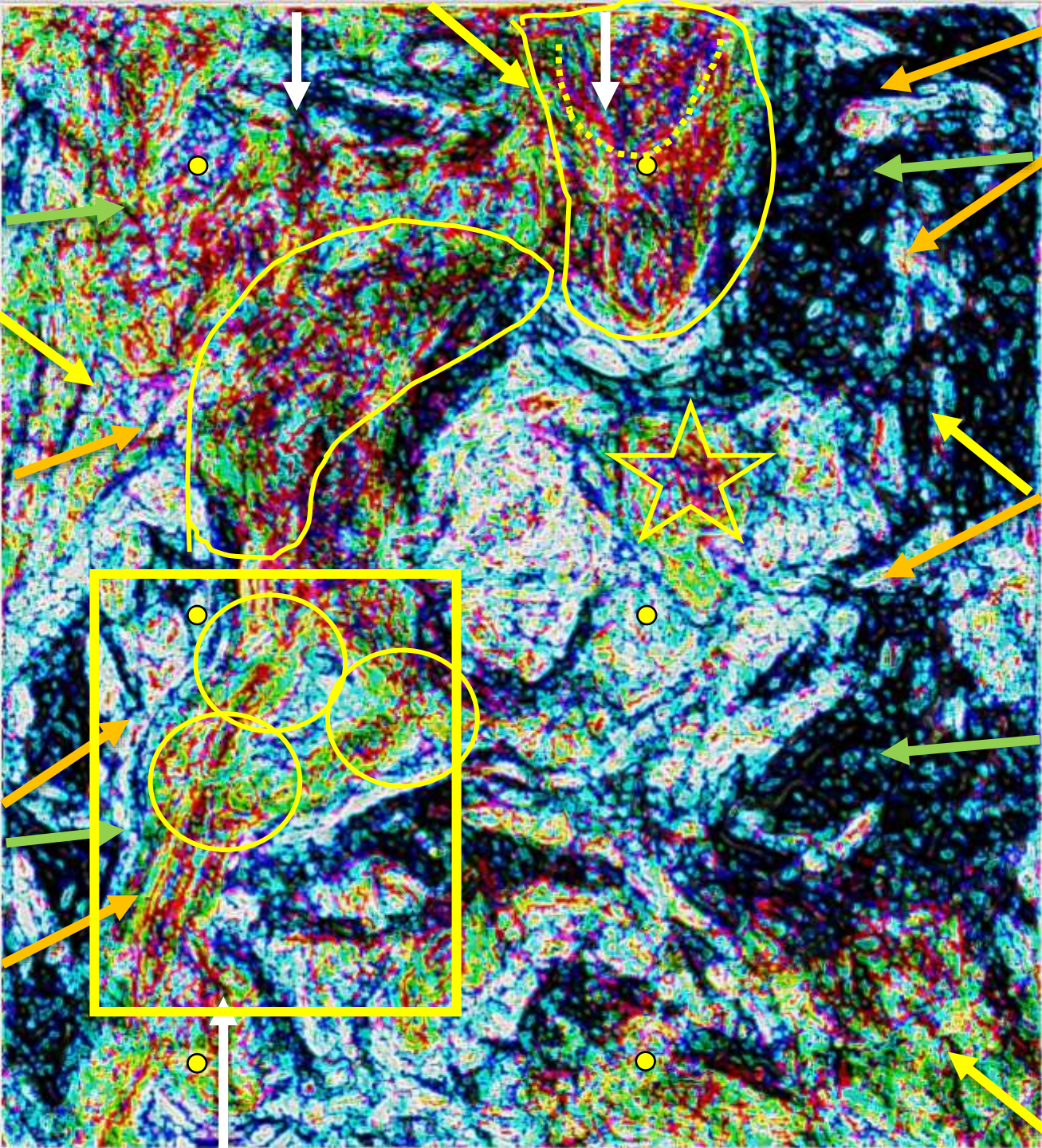
 Westonia, Granite hosted

 NW rim targets, Norseman, St Ives, Kalgoorlie, Wiluna.

Strong WNW, NW and ENE structures and strong NS and EW structures are seen in this complicated high magnetics area.

These are all good targeting criteria in the Yilgarn Craton.


  
 Top centre high magnetics show south facing ?folding/banding NS, ENE and NW structures **good** ?base metals? targets. **16**




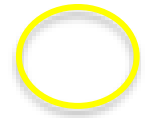
Chris Shaw LinkedIn.

**Where would you drill Primary Target gold activity?**

EagleEye pencil greyscale (pattern recognition) of previous slide. Fourth iteration.

**We will look at the area inside the yellow box which has Hill 50 BIF, Meekatharra, Great Fingal, Big Bell, type exploration targets.**

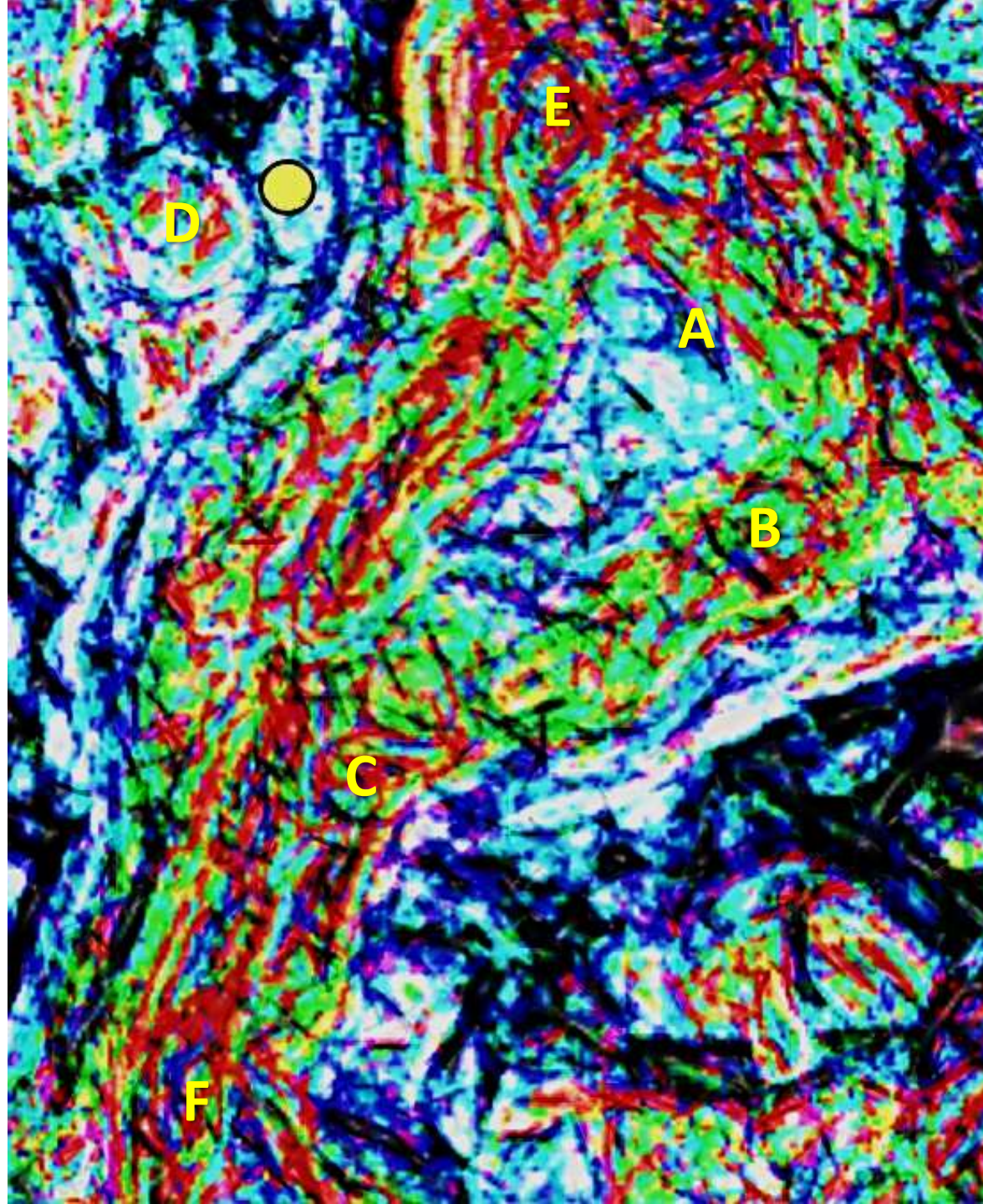
 Georeference grid points 10 km?



Hill 50 BIF?? and Meeka, Great Fingal, Big Bell, type targets.

**Enlargement of yellow box in slide 16.**

Note there is excellent definition of the BIF, faulting and lower magnetics stratigraphy. Several small plugs A – E can be seen which may be locii for mineralisation.



Chris Shaw LinkedIn.  
Where would you drill  
Primary Target gold activity?

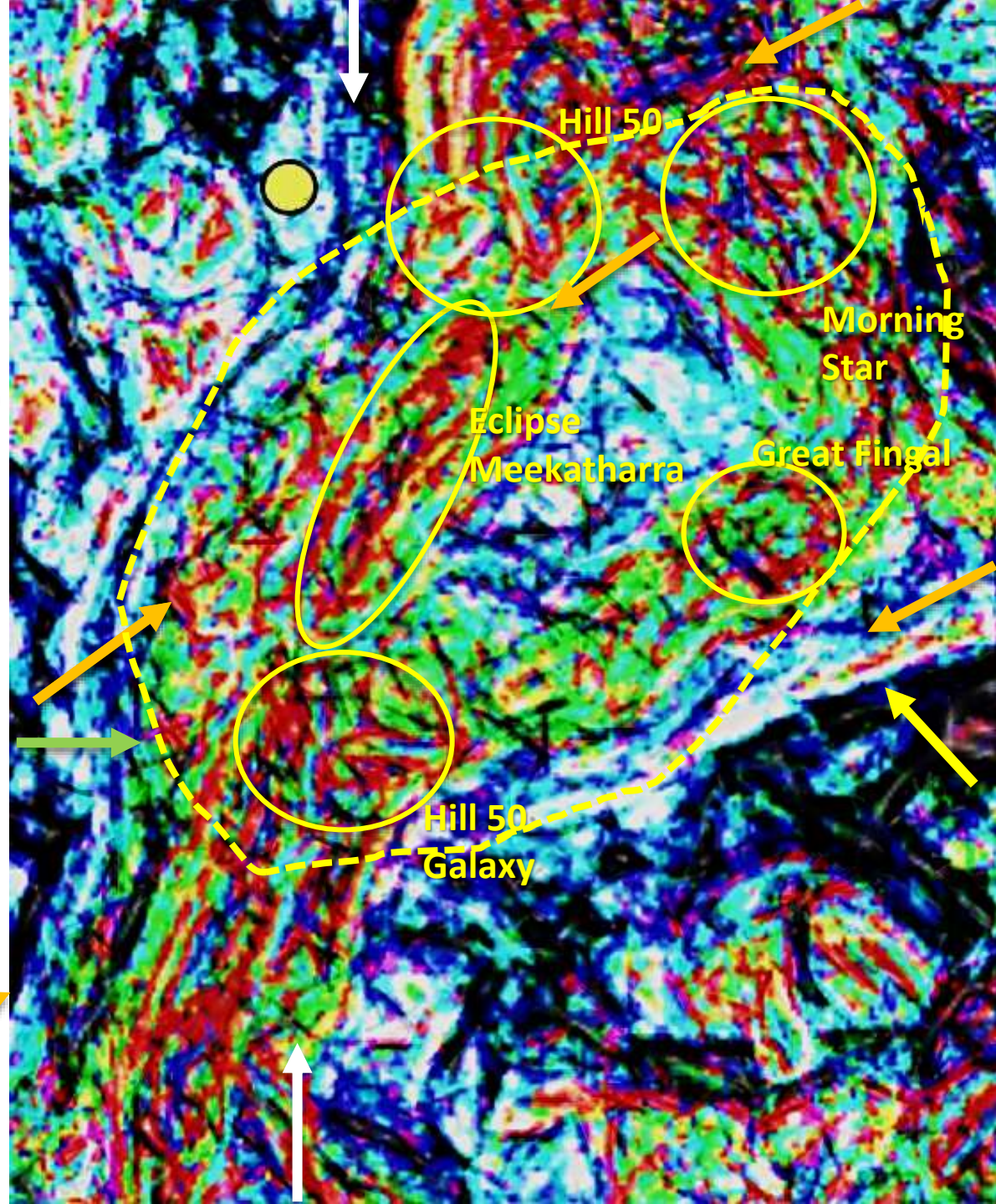
**Original magnetics image.**



● Georeference grid points  
5 km?



○ Hill 50 BIF?? Morning Star and Meeka, Great Fingal, Big Bell, type targets.




Chris Shaw LinkedIn.  
Where would you drill  
Primary Target gold activity?


**This would be the best area to look for Hill50 - Meekatharra type targets.**


**Strongly metasomatized altered Banded Iron Formation cut by NS, NE, ENE, NW and late EW structures.**


**The structural KNOT in the centre of the slide between the ENE and NNW corridors is very similar to that at Norseman.**

○ Georeference grid points  
5 km?



  
 NW NE NS EW

 Hill 50 BIF?? and Meeka, Great Fingal, Big Bell, type targets.

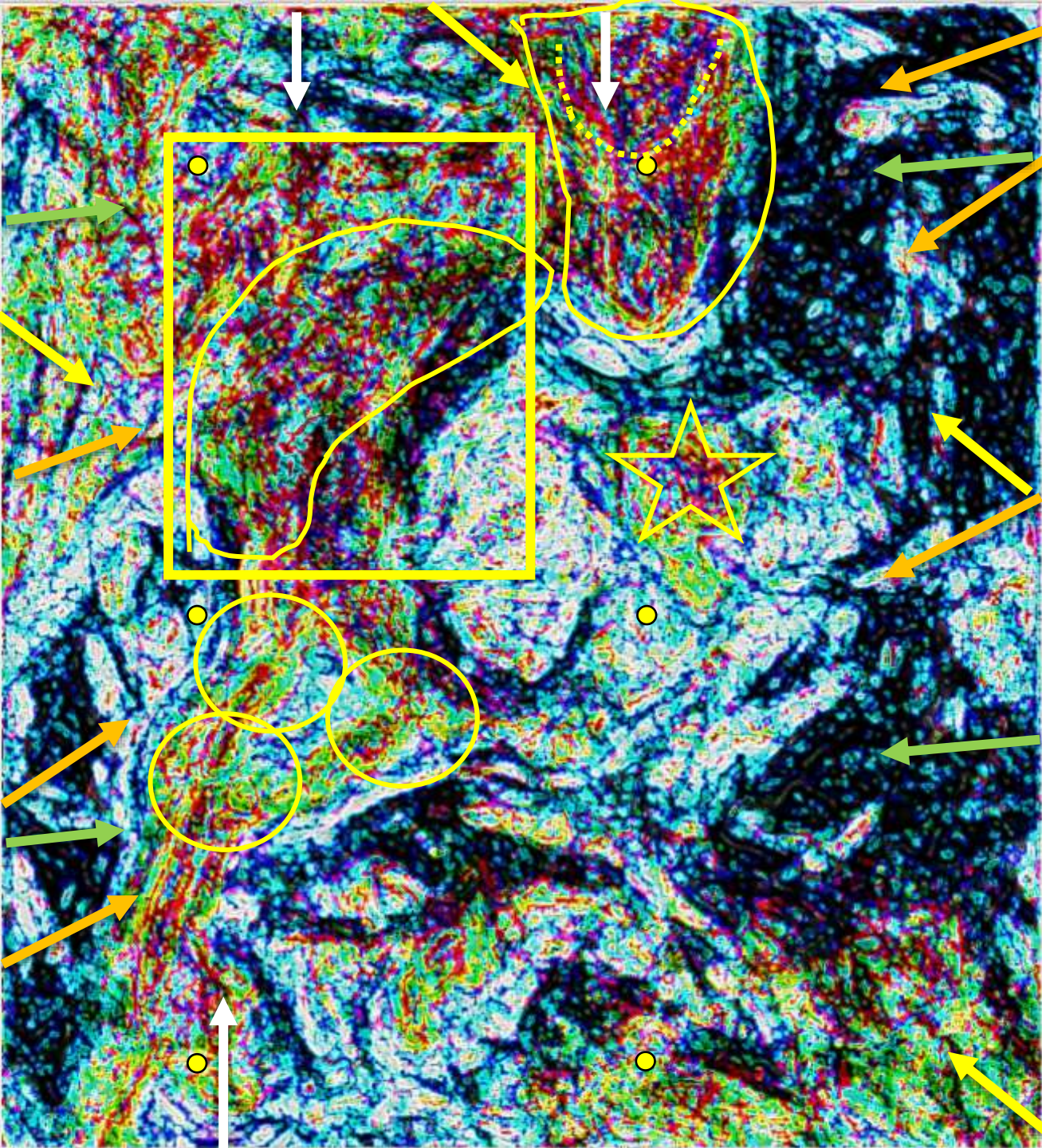
 Westonia, Granite hosted

 NW rim targets, Norseman, St Ives, Kalgoorlie, Wiluna.

Strong WNW, NW and ENE structures and strong NS and EW structures are seen in this complicated high magnetics area. These are all good targeting criteria in the Yilgarn Craton.

 Top centre high magnetics show south facing ?folding/banding NS, ENE and NW structures good ?base metals? target.

**19**



Chris Shaw LinkedIn.  
Where would you drill  
Primary Target gold activity?


EagleEye pencil greyscale  
(pattern recognition) of  
previous slide. Fourth  
iteration.

**We will look at the area  
inside the yellow box which  
has Norseman, St Ives,  
Kalgoorlie, Wiluna. type  
exploration targets.**

 Georeference grid points  
**10 km?**



Chris Shaw LinkedIn.  
Where would you drill  
Primary Target gold activity?

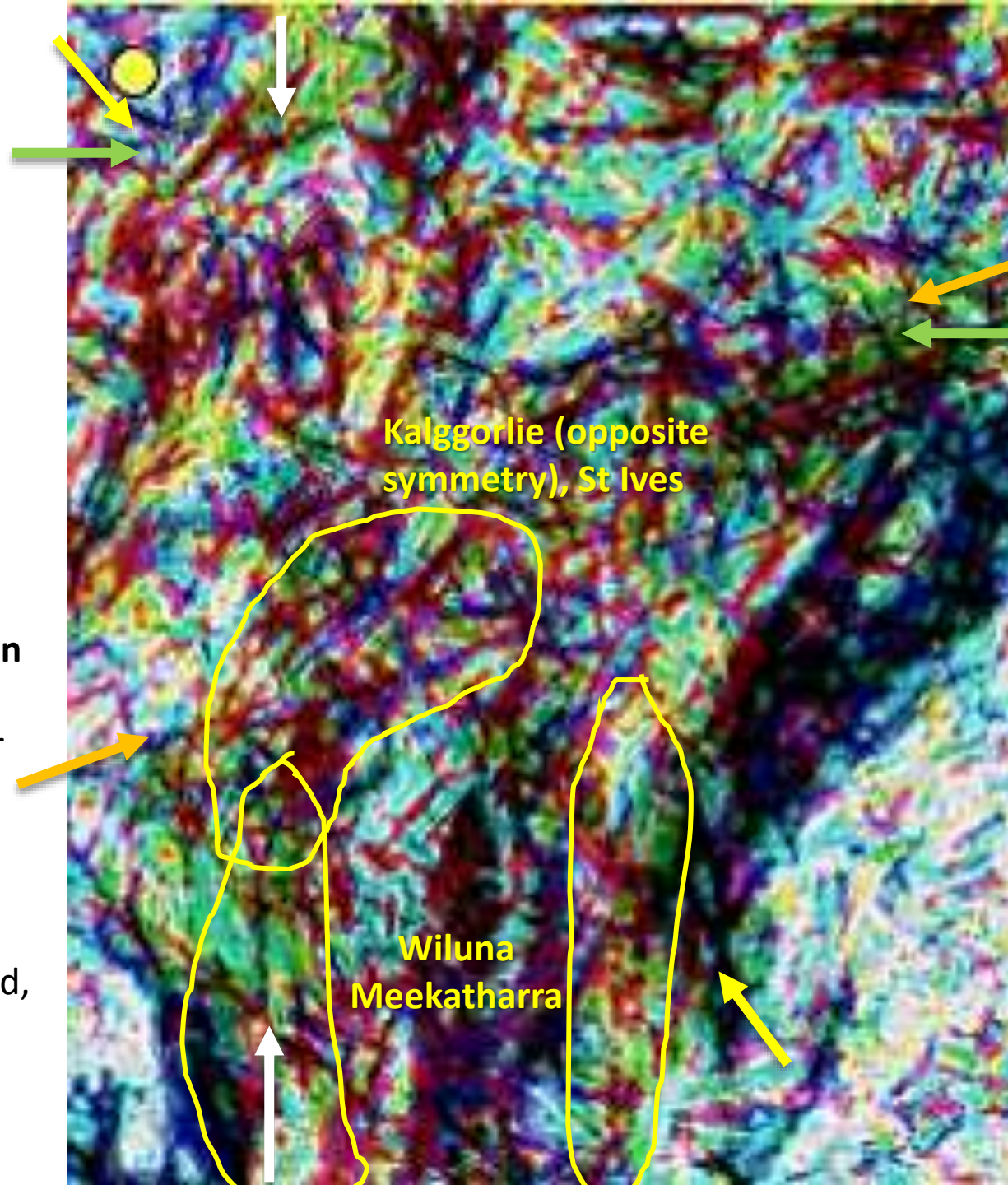
 NW rim targets,  
Norseman, St Ives,  
Kalgoorlie, Wiluna  
Meekatharra.

**Enlargement of yellow box in  
slide 19.**

Good stratigraphy and later  
structural geology seen.

This is a very structurally  
complex area – good for  
dilatational type deposits – gold,  
pegmatites etc

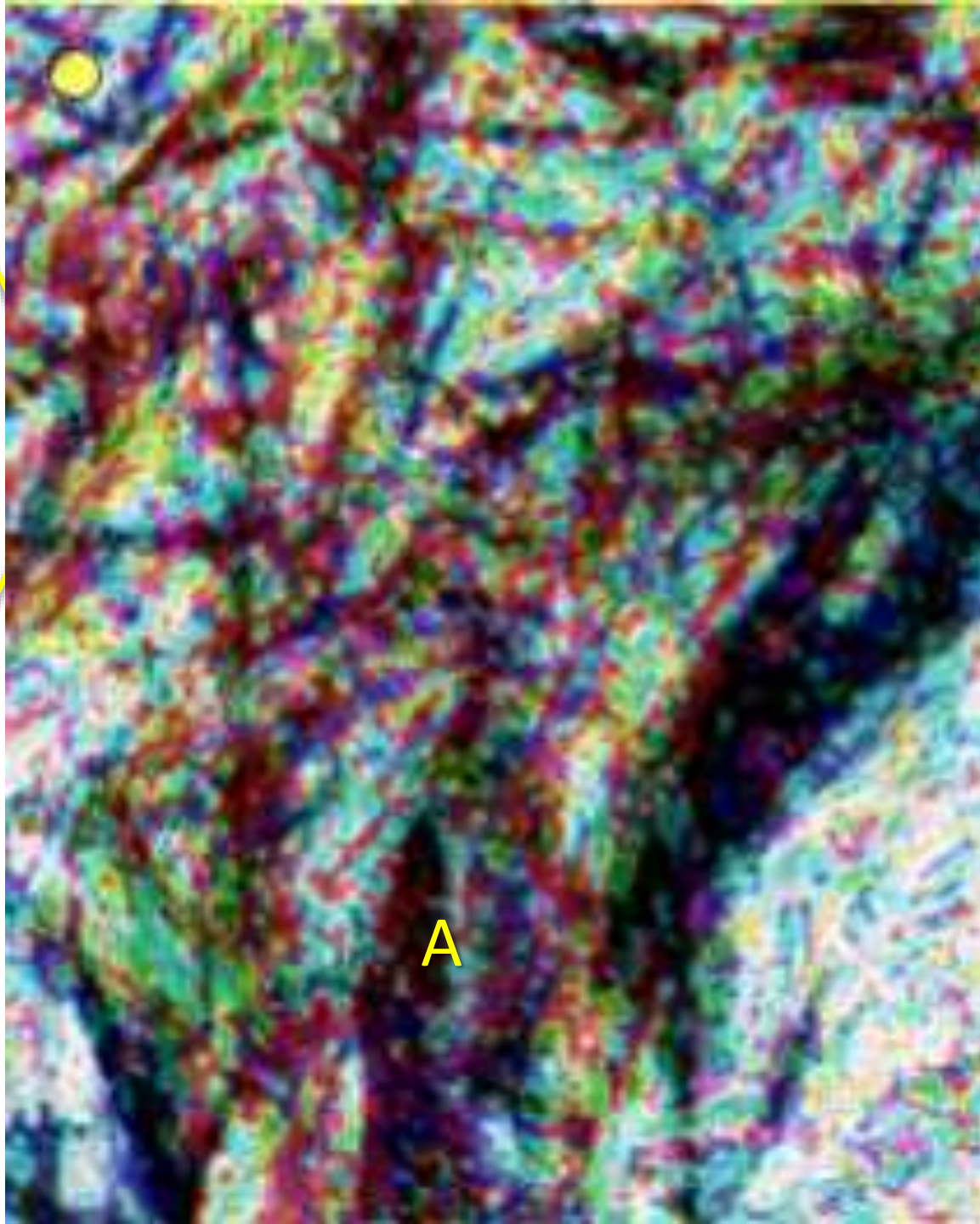
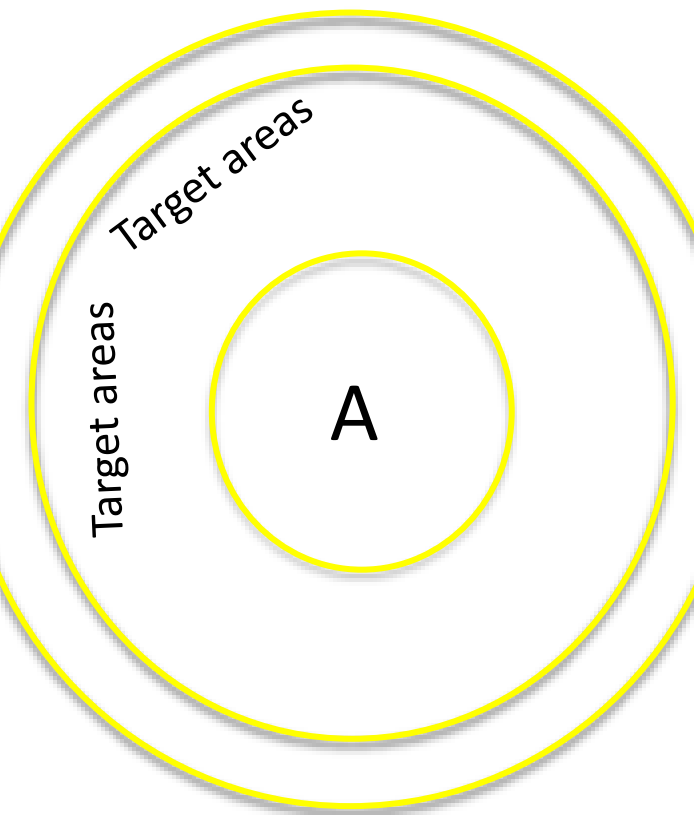
**20**



**Original magnetics image.**



● Georeference grid points  
5 km?  

Chris Shaw LinkedIn.  
Where would you drill  
Primary Target gold activity?

**Original magnetics image.**



● Georeference grid points  
5 km?



**A very clear, 10 km diameter,  
concentric ring structure is  
observed.**

**This structure overprints all  
other geology.**

**Is this an impact? – check the  
area for impact criteria.**

# Conclusions

Advantages of using EagleEye or similar pattern recognition software in Exploration.

1. There does **not appear to be geophysical software that can detect detailed geology from geophysical plans??**
  2. At very low cost you can **obtain this lithological and structural geology of any area**, covered or uncovered, yourself, at the office or home.
  3. From this information you can select the best areas to explore using **EagleEye information in tandem with your exploration targeting criteria.**
  4. When the best areas have been outlined, based on EagleEye geology plus targeted field work, you can pick up **Targeted leases** instead of large expensive tracts of unprospective country.
  5. Before you commit to drilling you can **complete a very detailed geological examination using EagleEye** and other methods to target the first drillholes.
1. **If you use EagleEye or a similar system (if one exists) you will be far in advance of your competition and pick up the best leases and explore them more effectively.**