

# EIT RawMaterials Mineral Resource Assessment Platform

Results of epithermal gold assessment, Iceland Tobias Björn Weisenberger Iceland GeoSurvey (ÍSOR), Reykjavík, Iceland

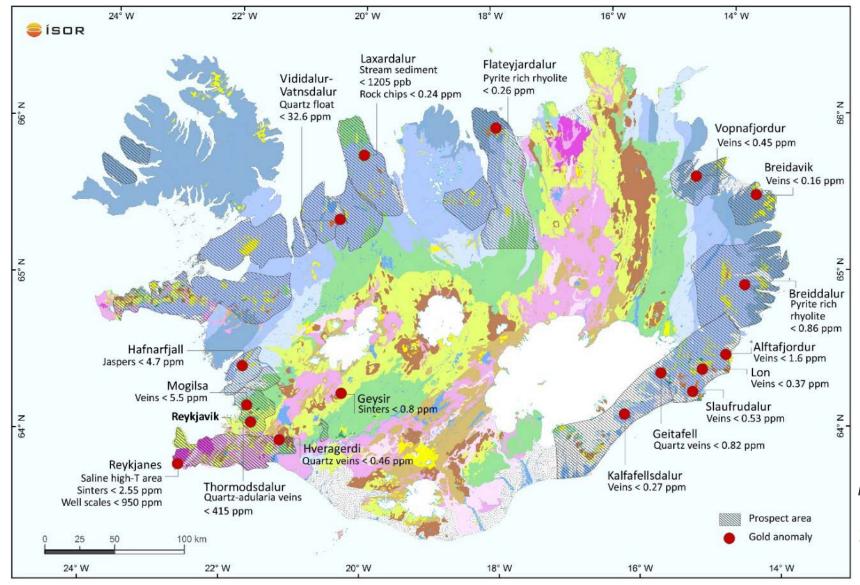








### Map of gold anomalies discovered in Iceland

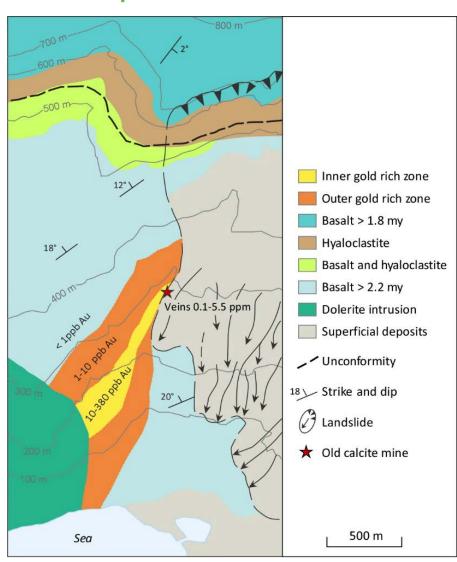


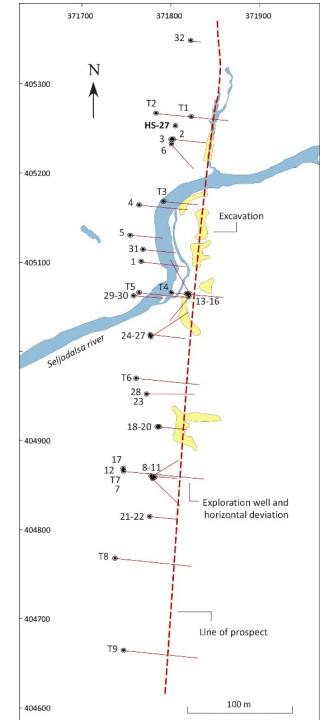
Franzson et al., 2016

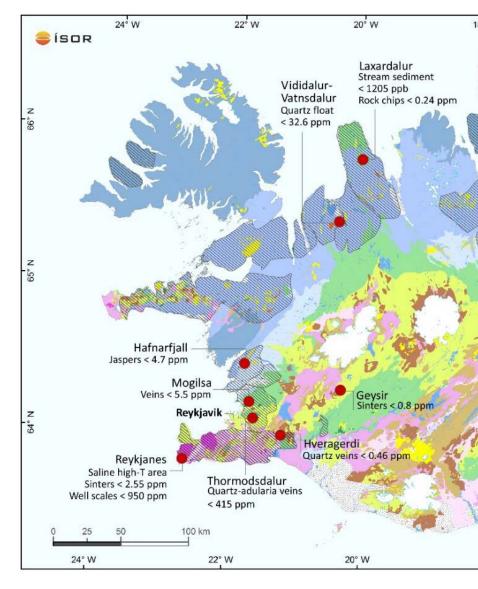
Supported by:



### **Prospects**



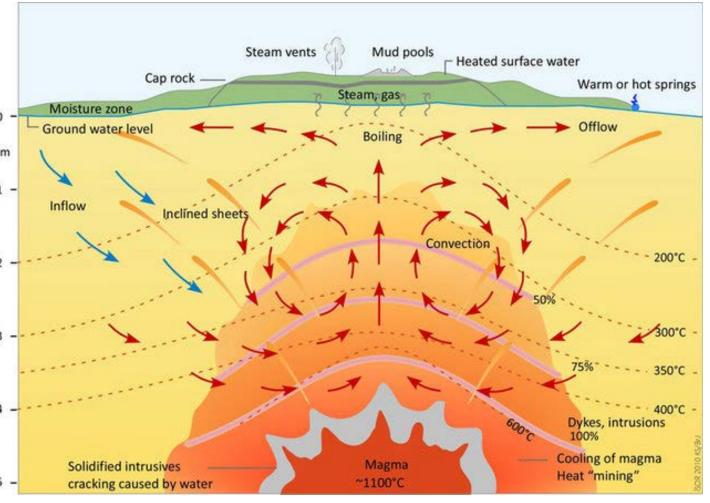


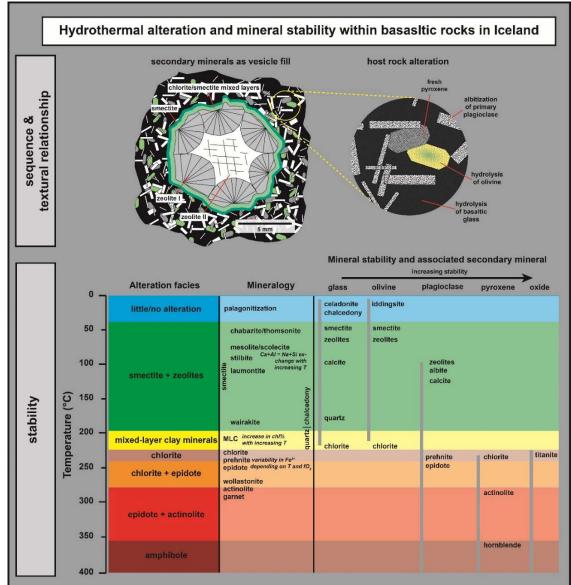






# High-Temperature Hydrothermal System

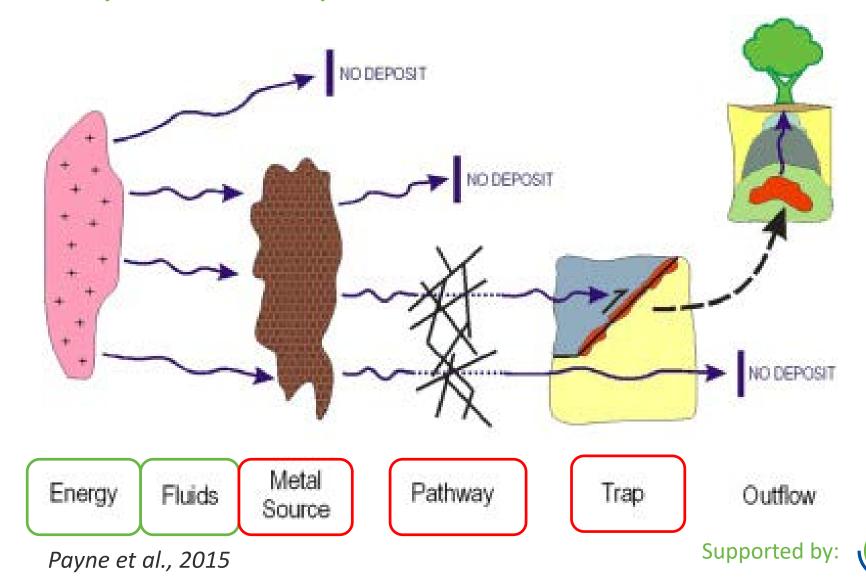






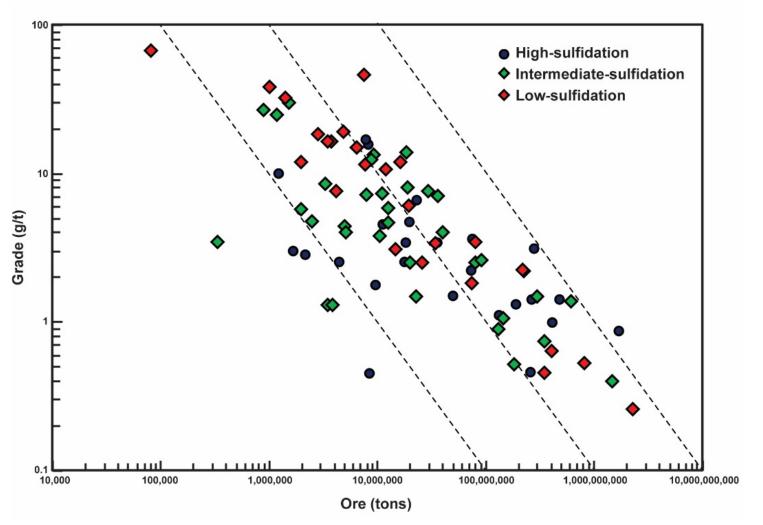


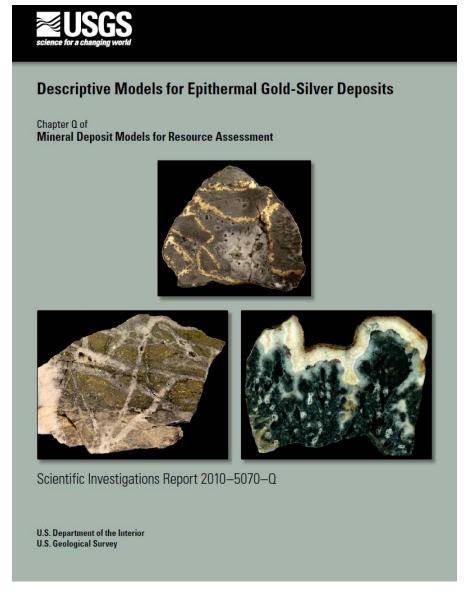
## The mineral systems concept of ore formation



**RawMaterials** 

## Grade/tonnage model

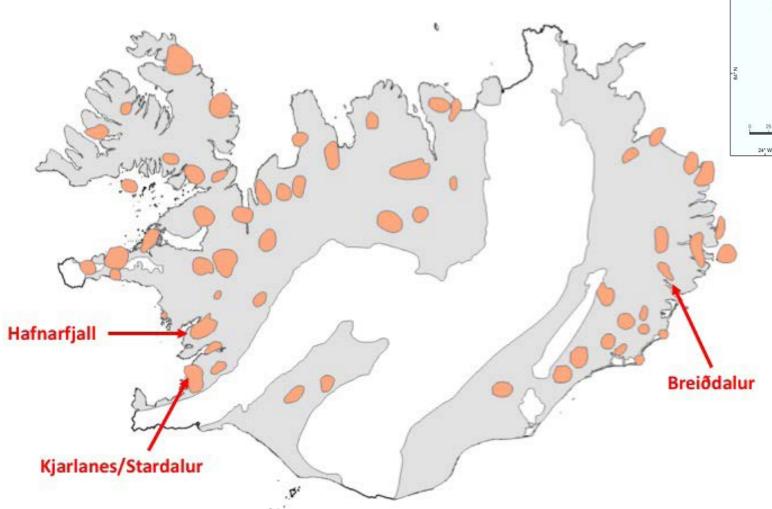


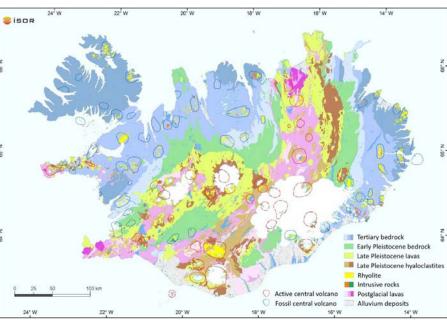






### Permissive tracts



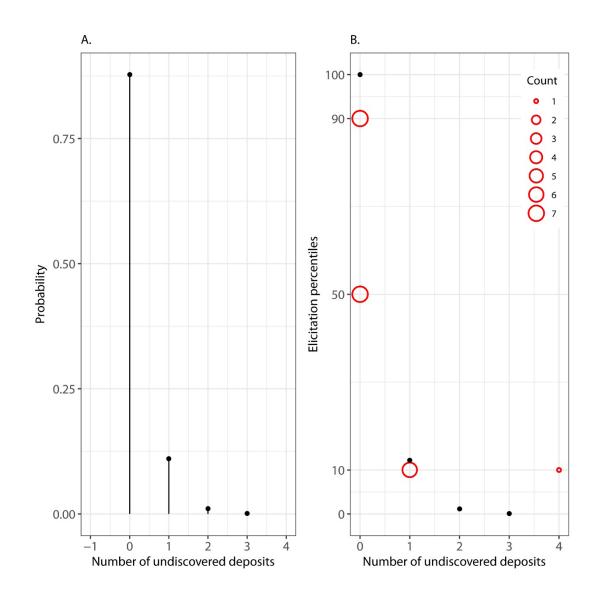




### Breiðdalur - MAPWizard results

Expert	Weight	N90	N50	N10
GOF	1	0	0	1
HF	1	0	0	1
VH	1	0	0	1
TBW	1	0	0	1
BGR	1	0	0	1
GME	1	0	0	1
ТВ	0.5	0	0	4

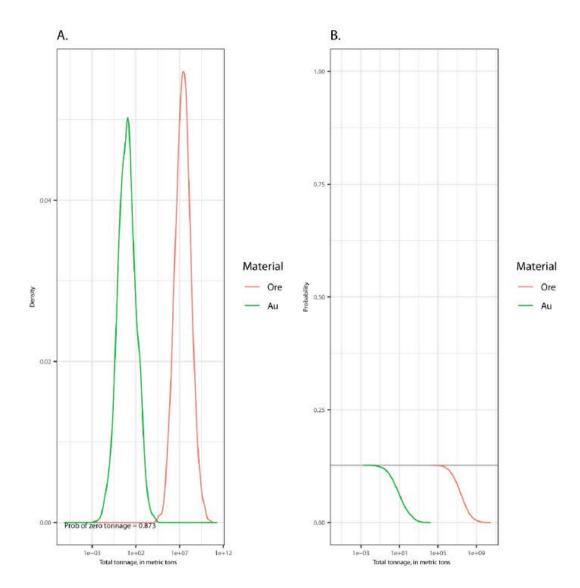
Туре	negative binomial
Mean	0.135
Variance	0.144
St. Dev.	0.379
Mode	0
Smallest N deposits in pmf	0
Largest N deposits in pmf	3
Inform. entropy	0.413





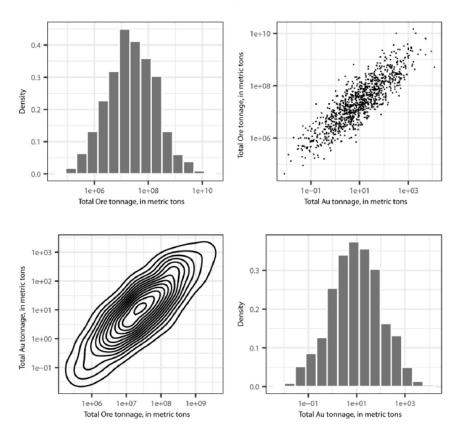


### Breiðdalur - MAPWizard results



	Quantile							Mean	Probability of		
	0.05	0.1	0.25	0.5	0.75	0.9	0.95		None	Mean or greater	
Ore (Mt)	0	0	0	0	0	4.55	42.8	27.1	0.87	0.06	
Au (t)	0	0	0	0	0	1.45	17.00	17.40	0.87	0.05	

#### Probability of zero tonnage = 0.873



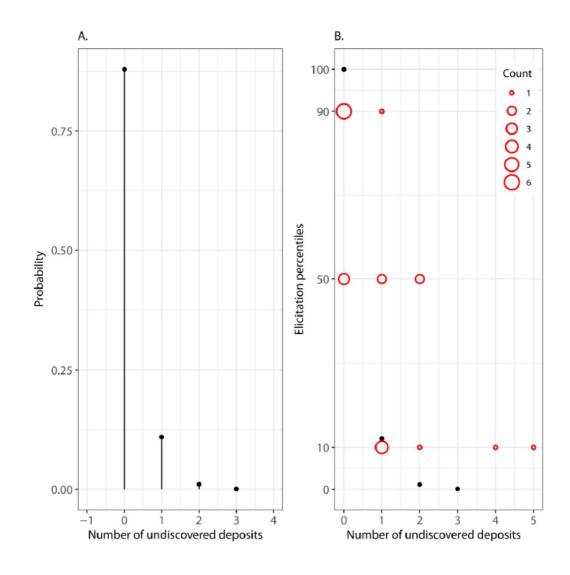




# Hafnarfjall - MAPWizard results

Expert	Weight	N90	N50	N10
GOF	1	0	2	4
HF	1	0	1	1
VH	1	0	0	1
TBW	1	0	0	1
BGR	1	0	1	2
GME	1	0	0	1
ТВ	0.5	1	2	. 5

Туре	negative binomial
Mean	0.134
Variance	0.143
St. Dev.	0.378
Mode	0
Smallest N deposits in pmf	0
Largest N deposits in pmf	3
Inform. entropy	0.410
	'

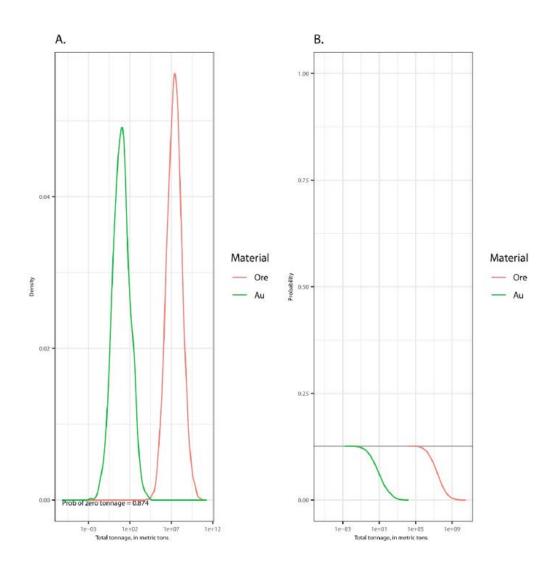


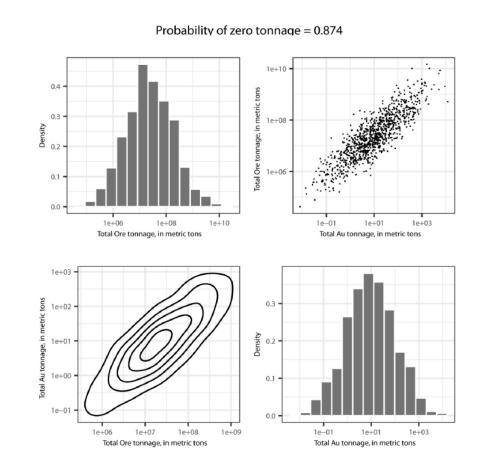




# Hafnarfjall - MAPWizard results -

		Quantile							Probability of	
	0.05	0.1	0.25	0.5	0.75	0.9	0.95		None	Mean greate
Ore (Mt)	0	0	0	0	0	4.32	42	27	0.87	0.06
Au (t)	0	0	0	0	0	1.37	16.80	17.40	0.87	0.05





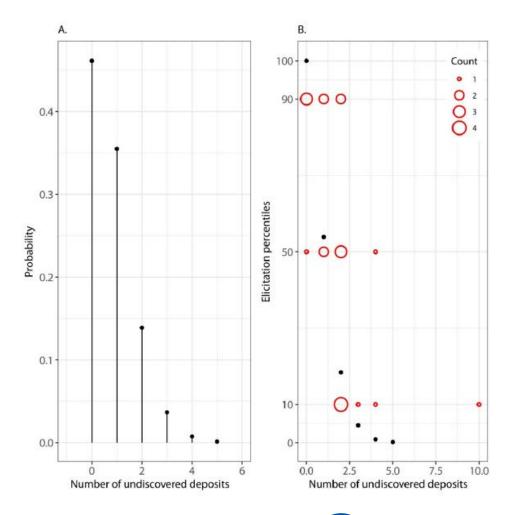




# Kjarlarnes/Stardalur - MAPWizard results

Expert	Weight	N90	N50	N10
GOF	1	1	2	3
HF	1	2	2	2
VH	1	0	0	2
TBW	1	0	1	2
BGR	1	1	2	4
GME	1	0	1	2
ТВ	0.5	2	4	10

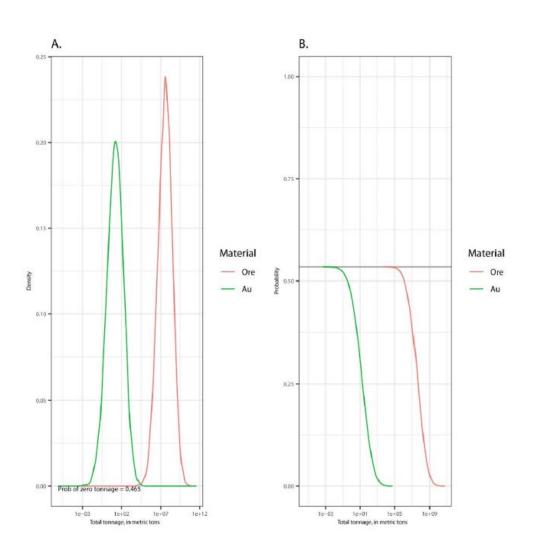
Туре	negative binomial
Mean	0.778
Variance	0.784
St. Dev.	0.885
Mode	0
Smallest N deposits in pmf	0
Largest N deposits in pmf	5
Inform. entropy	1.165





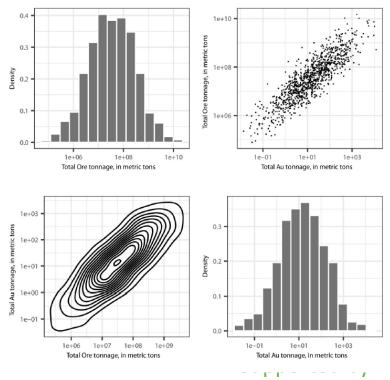


# Kjarlarnes/Stardalur - MAPWizard results



	•	Quantile							Pro	pability of
	0.05	0.1	0.25	0.5	0.75 0.9 0.95		0.95		None	Mean or greater
Ore (Mt)	0	0	0	1.36	45.4	240	558	143	0.47	0.14
Au (t)	. 0	0	0	0.35	19.1	129	354	106	0.47	0.11

#### Probability of zero tonnage = 0.465





### Conclusion & Recommendation

- Application of the MAPWizard three-part assessment tool for a greenfield
  - Incomplete descriptive model of the hydrothermal ore formation model as well as limited exploration data
    - This results in a lack vectors that can guide to deposits and hence a low number of estimated deposits.
  - Grade/tonnage model based on global scale



### Supported by:



