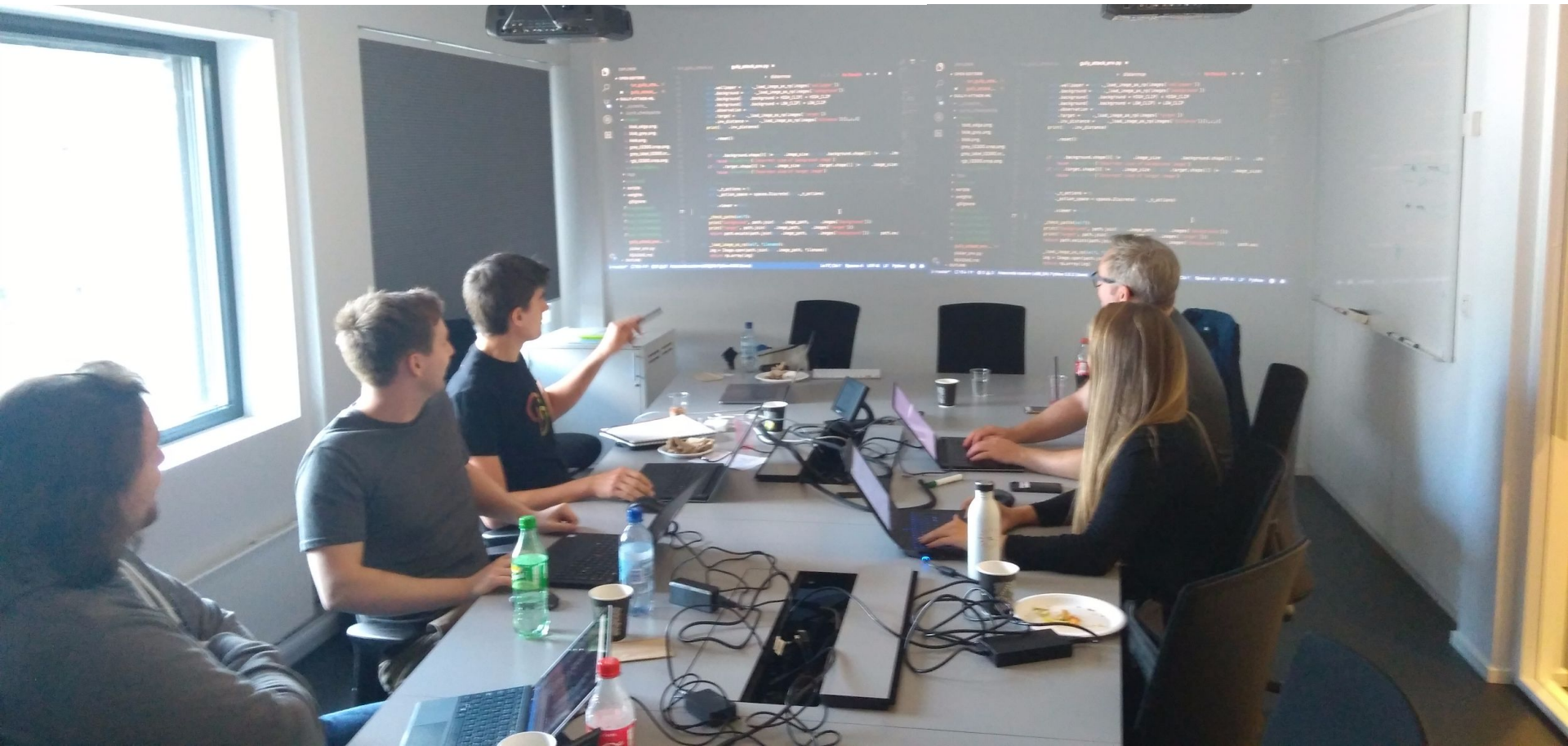
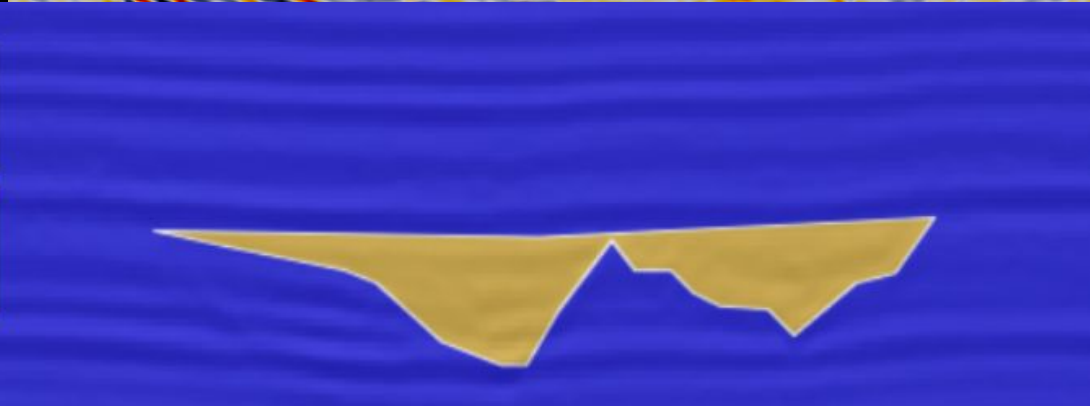
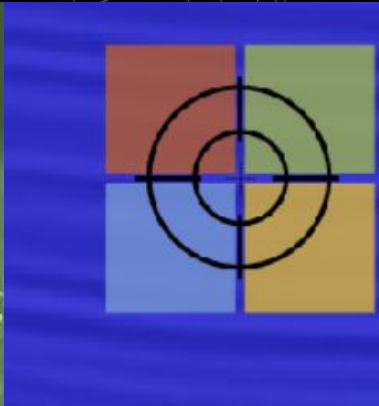
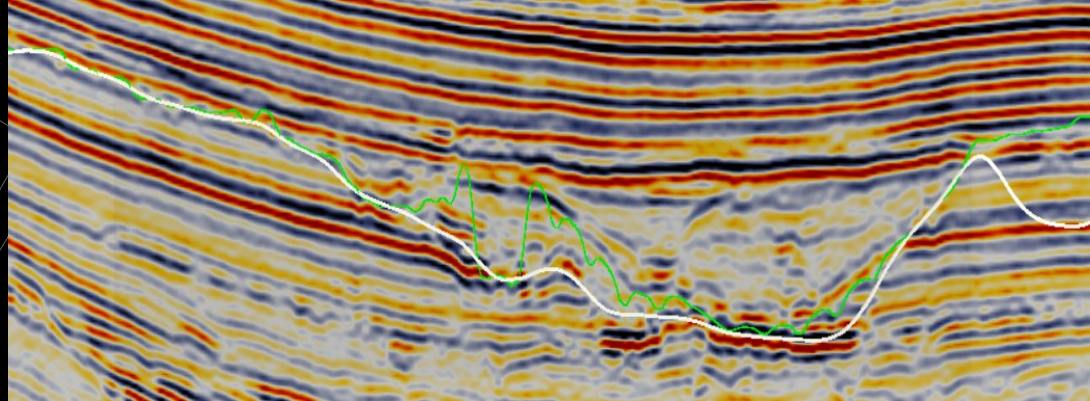
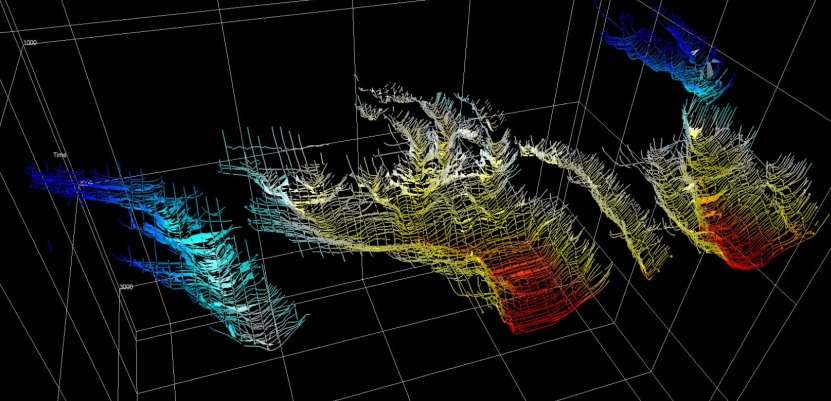


# GULLY attack

THE REINFORCERS



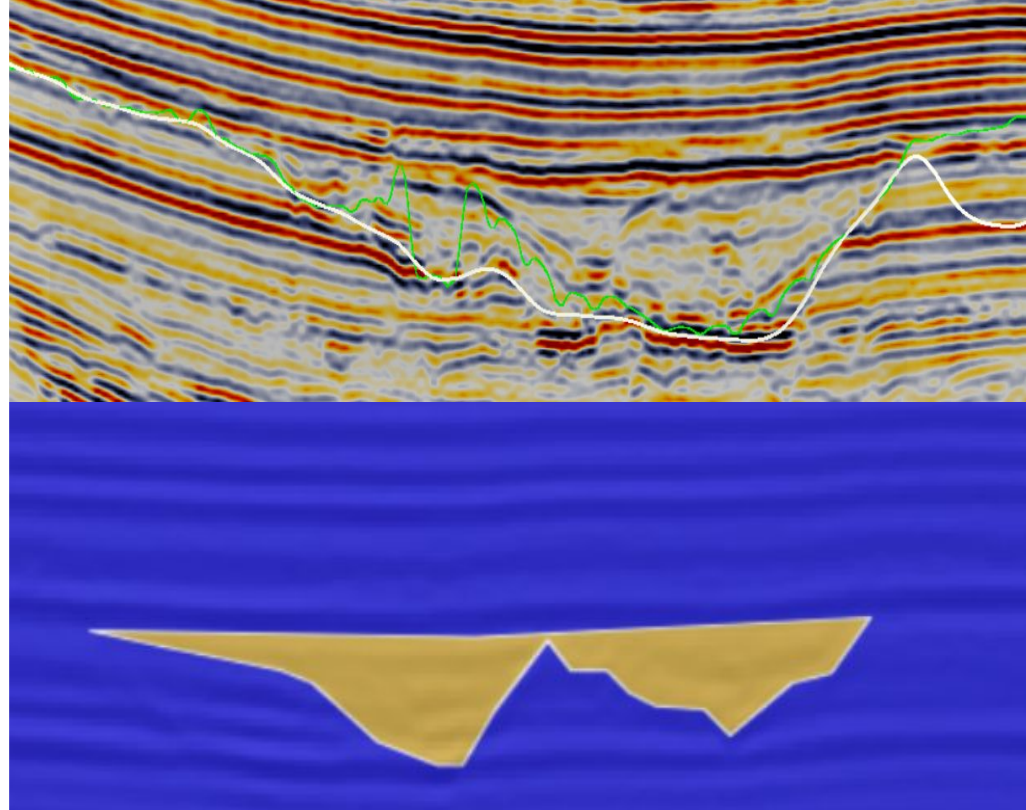
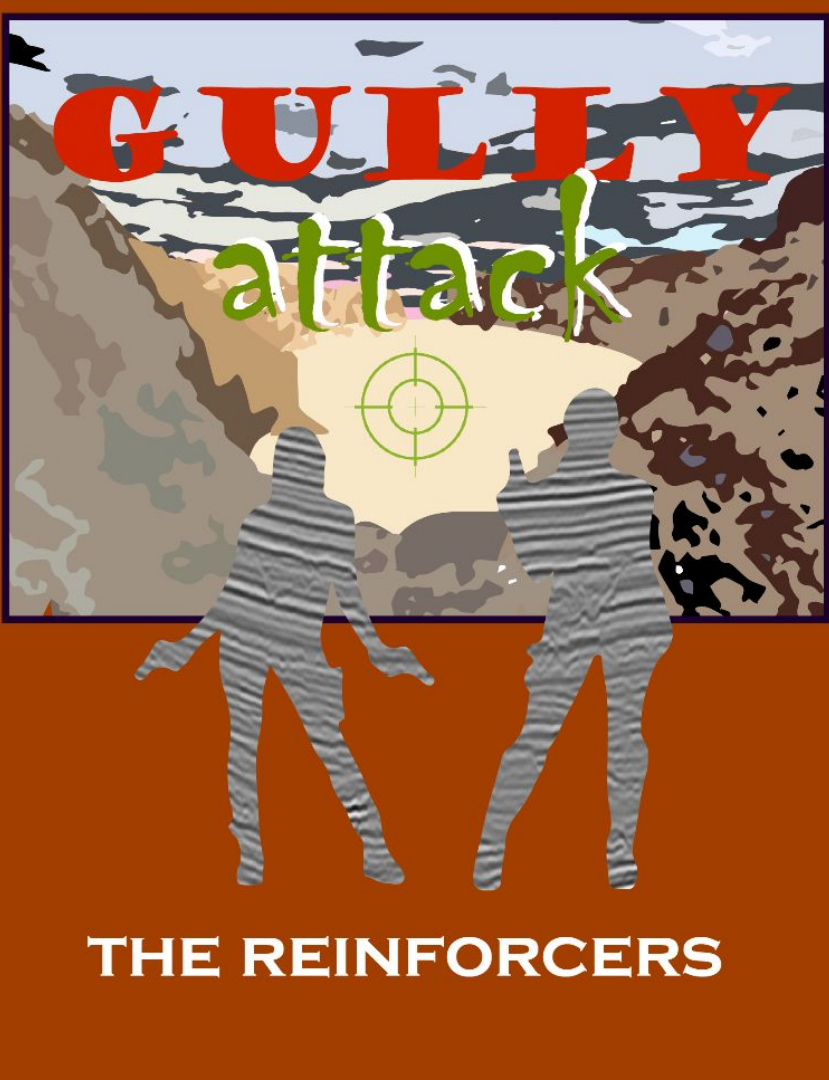


**THE REINFORCERS**

Aina Bugge  
Peder Aursand  
Thormod Myrvang

Steve Purves  
Eirik Larsen  
JB Bonas





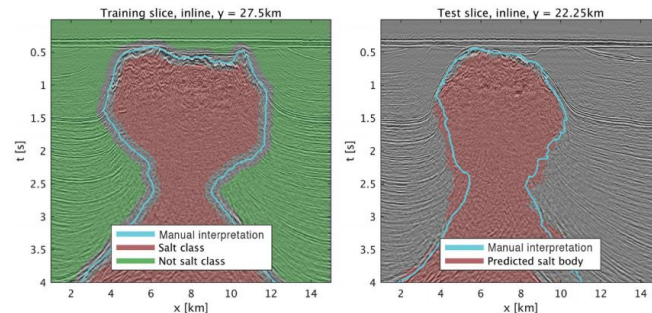
Aina Bugge  
Peder Aursand  
Thormod Myrvang

Steve Purves  
Eirik Larsen  
JB Bonas

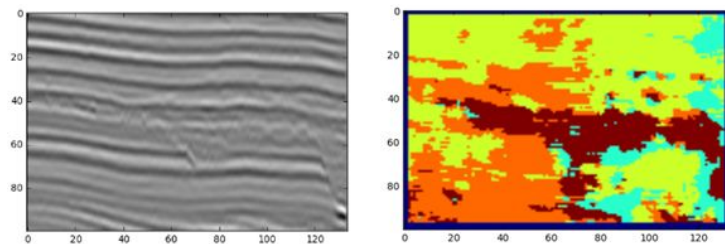
# Automated gully interpretation: 3 methods - 2 days

## Supervised Learning 3D CNN:

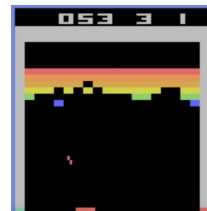
*A. Waldeland 2018*



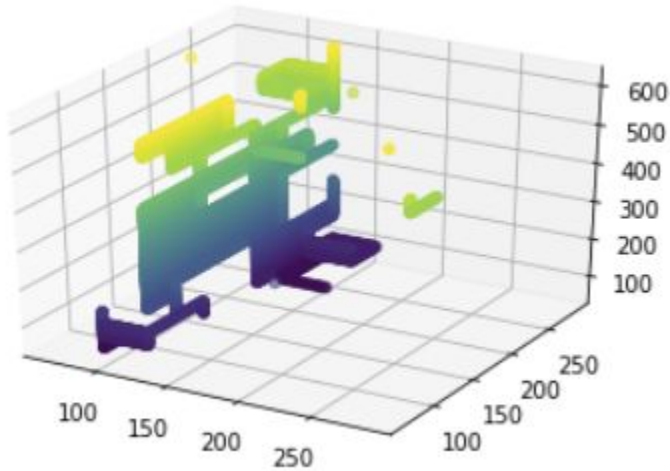
## Unsupervised Learning:



## Reinforcement Learning:



# Supervised Learning

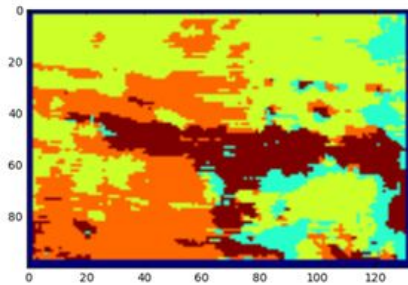
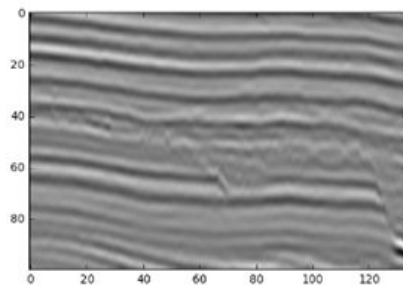
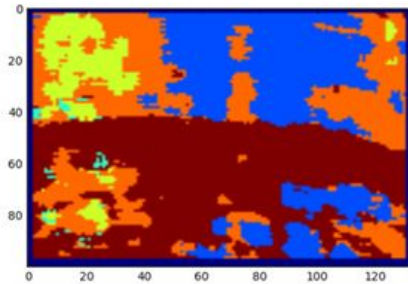
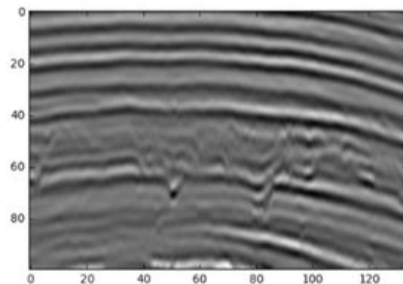
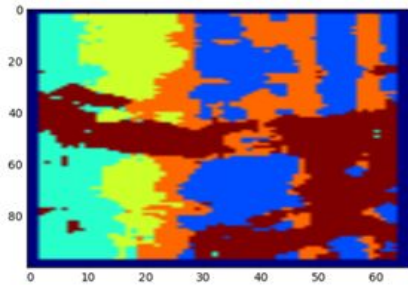
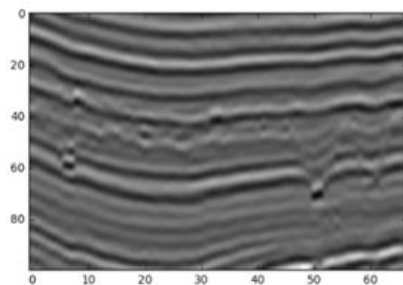


# Unsupervised Learning

**Local binary pattern**

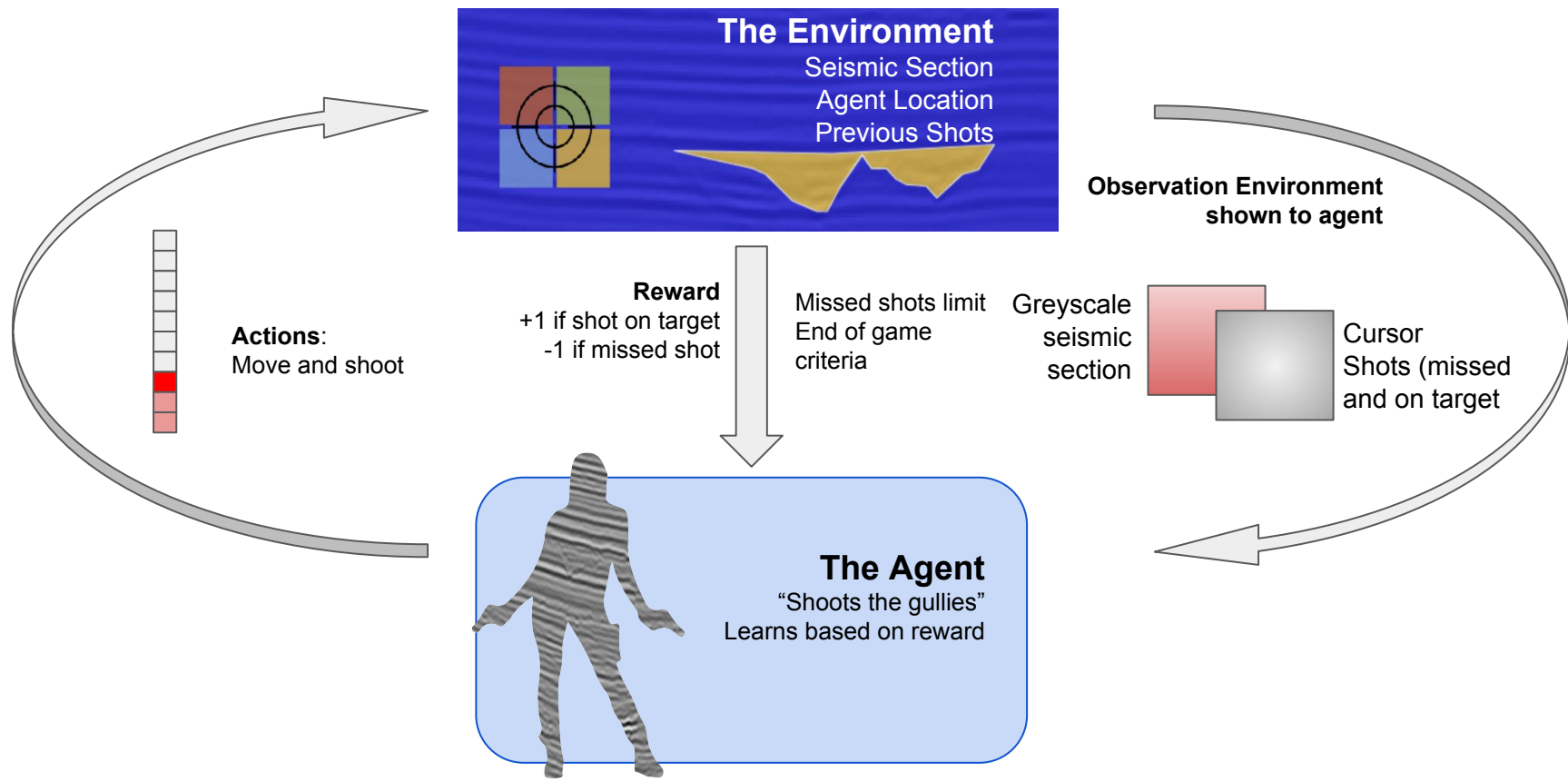
+

**K means clustering**



# GULLY attack

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# GULLY attack

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