

**AUTHORITY**  
KeyGen:  $(\mathbb{A}, \text{PK}, \text{MK}) \Rightarrow D$   
(Keep record of  $\mathbb{A}$ )

**CLIENT**  
Maps  
GPS coordinates: location  
 $data = \text{location}$   
Encrypt:  $(data, \gamma, \text{PK}) \Rightarrow E$

**SERVER**  
Using  $D$ , attempt to decrypt  
any provided data

$D(E) \Rightarrow (\text{policy seen})$   
If  $\mathbb{A} \models \gamma$ :  
 $D(E) = data \rightarrow F(data)$   
Else:  
 $D(E) = \text{False}$   
 $msg = \text{"Policy not accepted"}$

**KEY**  
 $\mathbb{A}$  = Attribute List  
PK = Public Parameters  
MK = Master Key  
 $\gamma$  = client sharing policy  
 $F$  = server action function

2. PK

2.  $D$

1.  $\mathbb{A}$

3.  $E$

4.  $F(data)$  or  $msg$