@startuml

scale 800 width

[\*] --> Initialization : Start

state Initialization {

[\*] --> Idle : No Measurements

Idle --> Initialized : First Measurement

Initialized --> Prediction : Second Measurement

}

state Prediction {

[\*] --> Predicted : Predict Step

Predicted --> Prediction : No Update

Predicted --> Updated : Update Step

}

state Updated {

[\*] --> Predicted : Predict Step

}

state Idle {

[\*] --> Initialized : First Measurement

}

state Initialized {

[\*] --> Prediction : Second Measurement

}

[\*] --> Initialization

Initialization --> Idle : No Data

Idle --> Initialized : First Measurement

Initialized --> Prediction : Second Measurement

Prediction --> Predicted : Predict Step

Updated --> Predicted : Predict Step

Predicted --> Updated : Update Step

@enduml