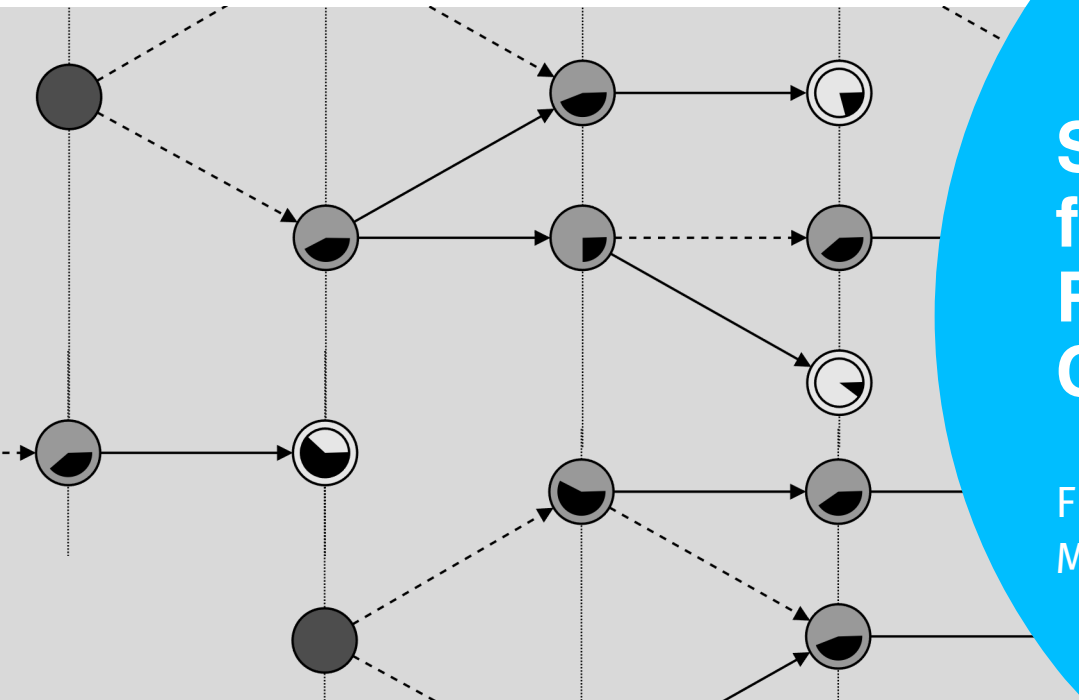


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State Space Exploration for Planning Reconfigurations in Cloud-native Systems

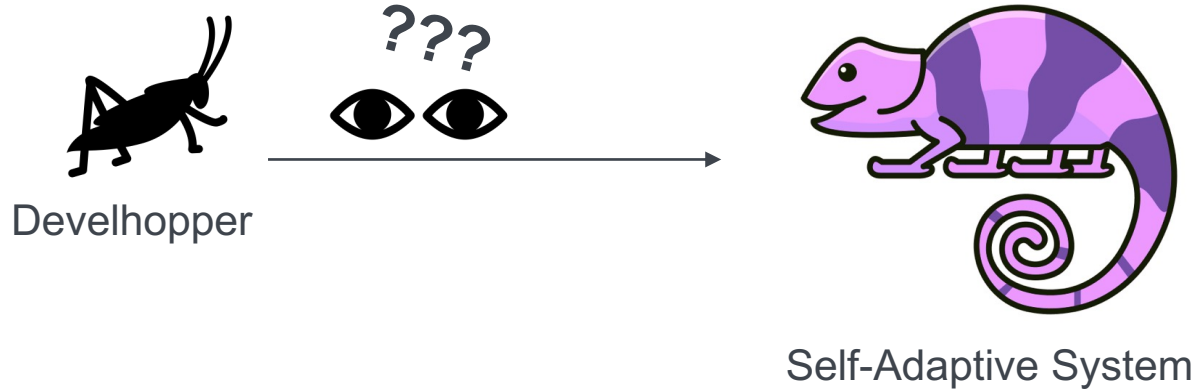
Florian Ege, Stefan Höppner,
Matthias Tichy, [Sarah Stieß](#)



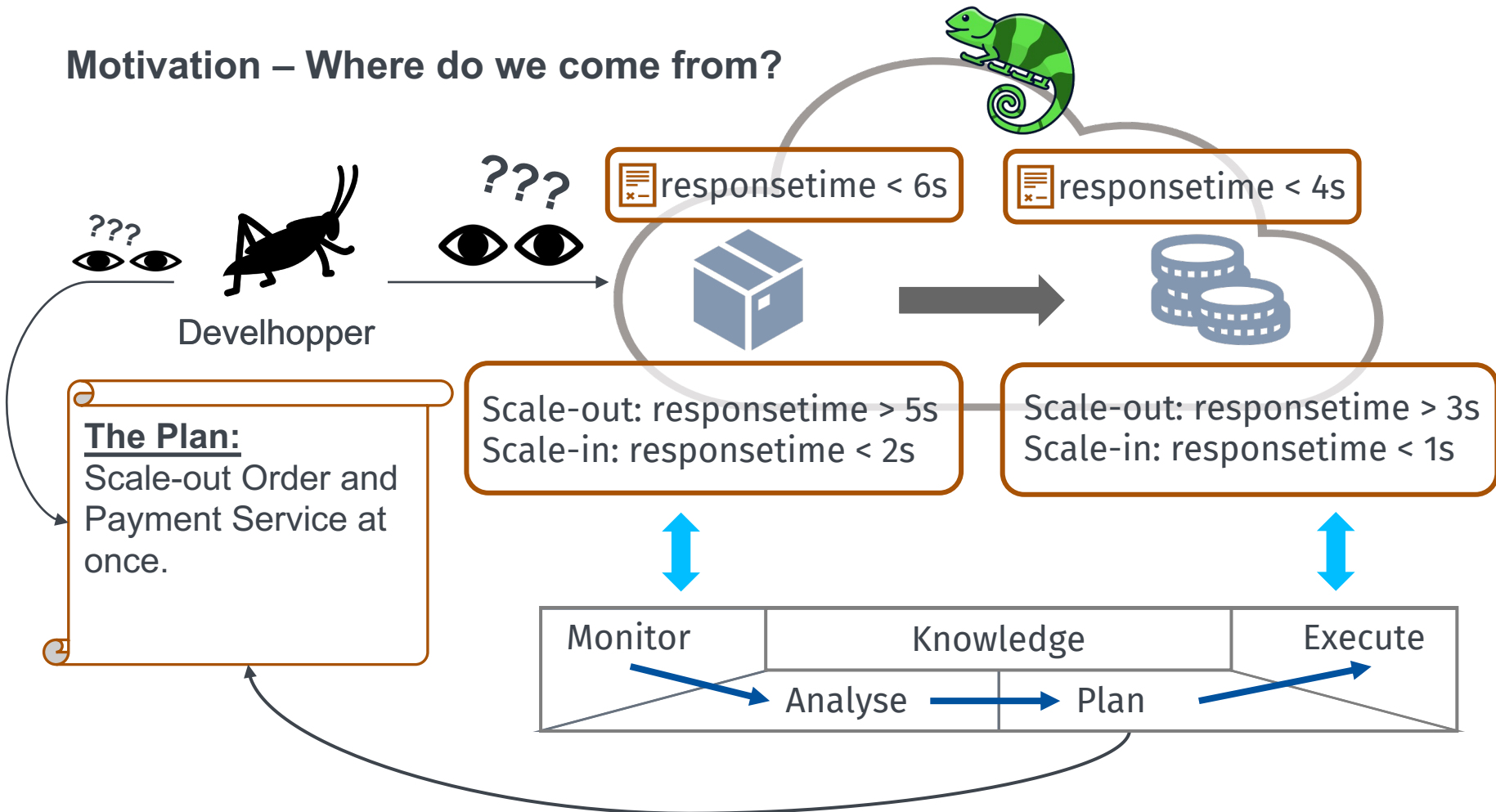
Software Engineering
Programming Languages



Motivation – Where do we come from?



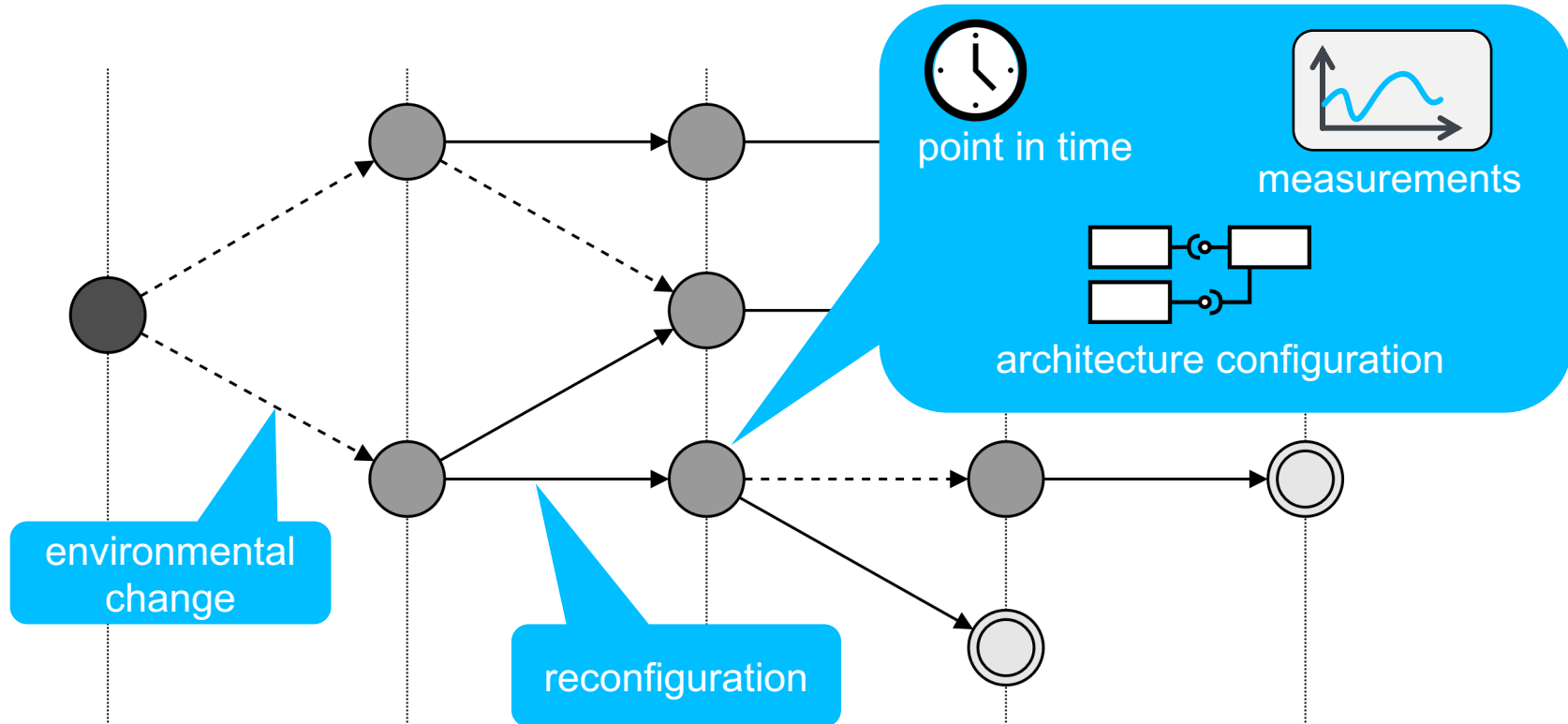
Motivation – Where do we come from?



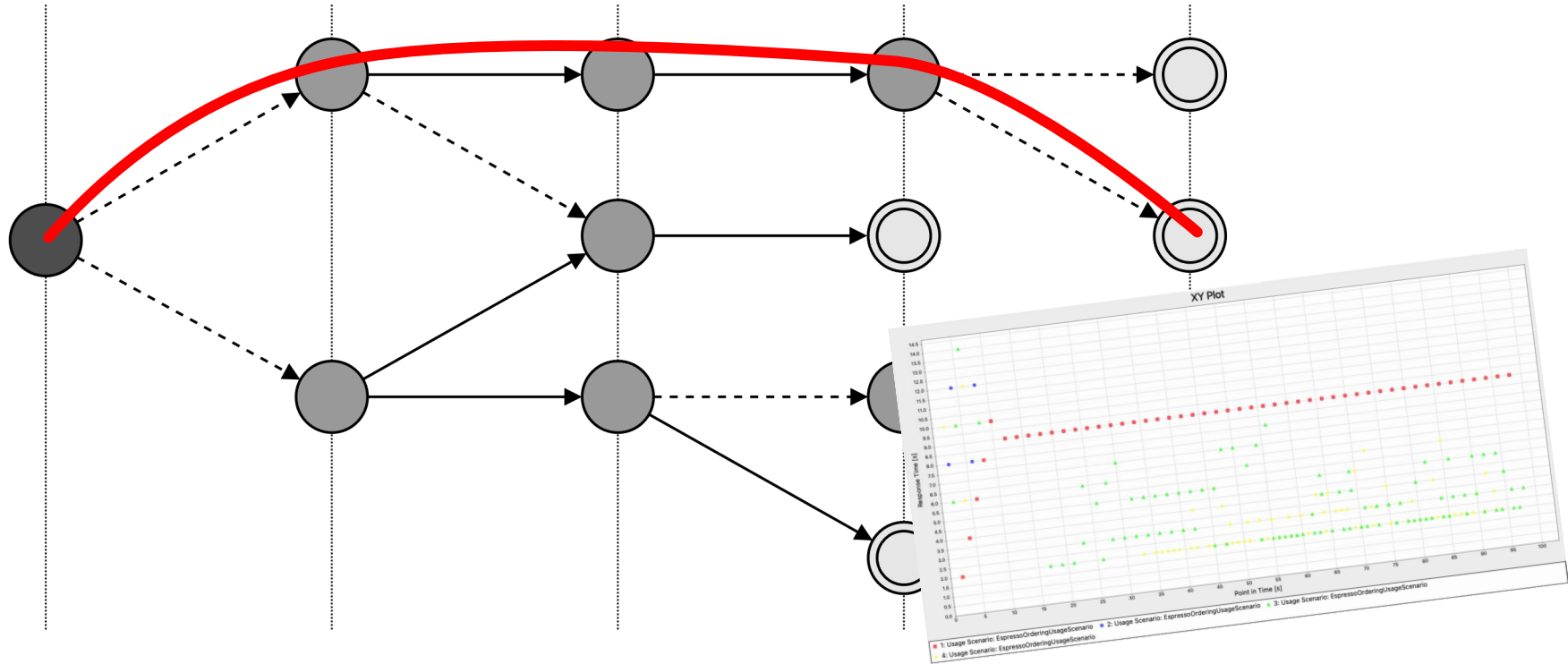
A cartoon illustration of a green chameleon with a yellow and green striped body, perched on a small green branch. The chameleon has a long, curled tail and is looking towards the left.



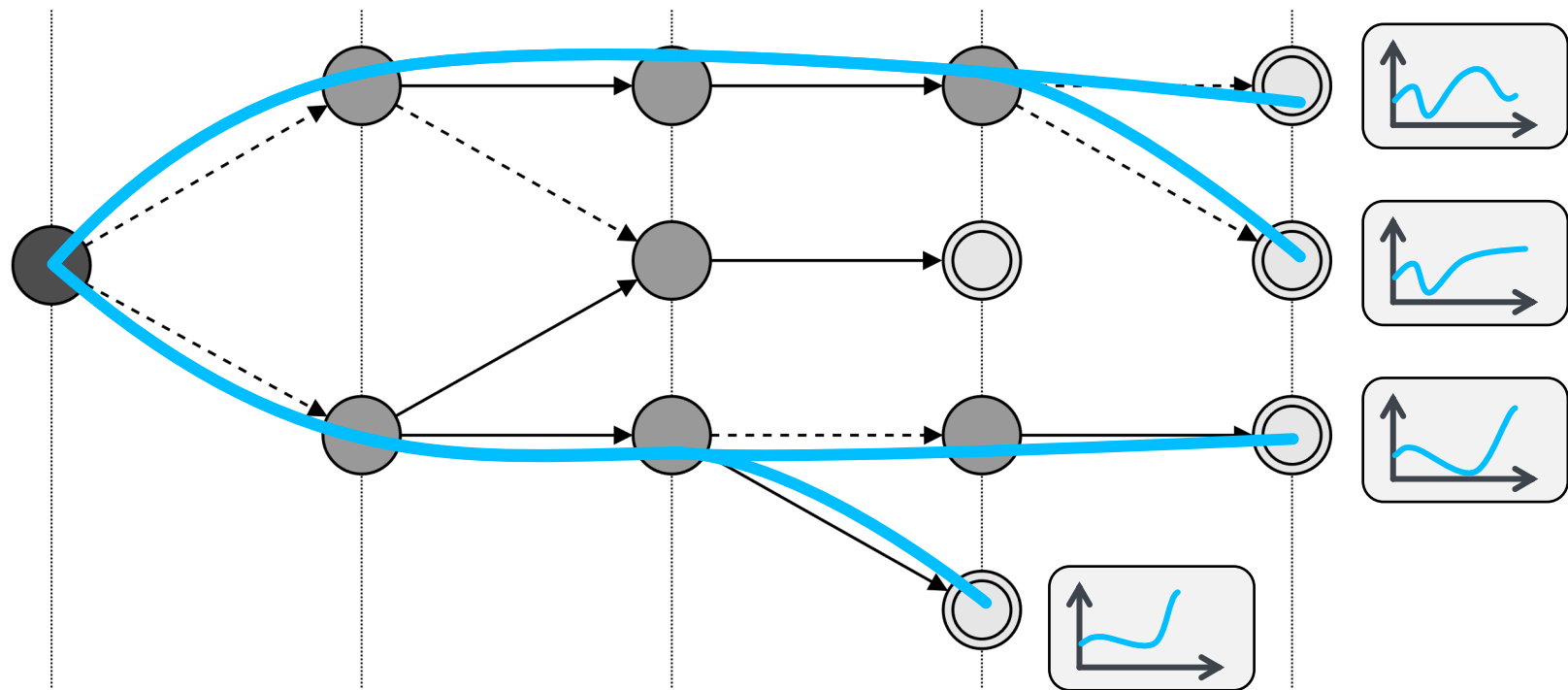
State Graph – courtesy of Matthias Becker



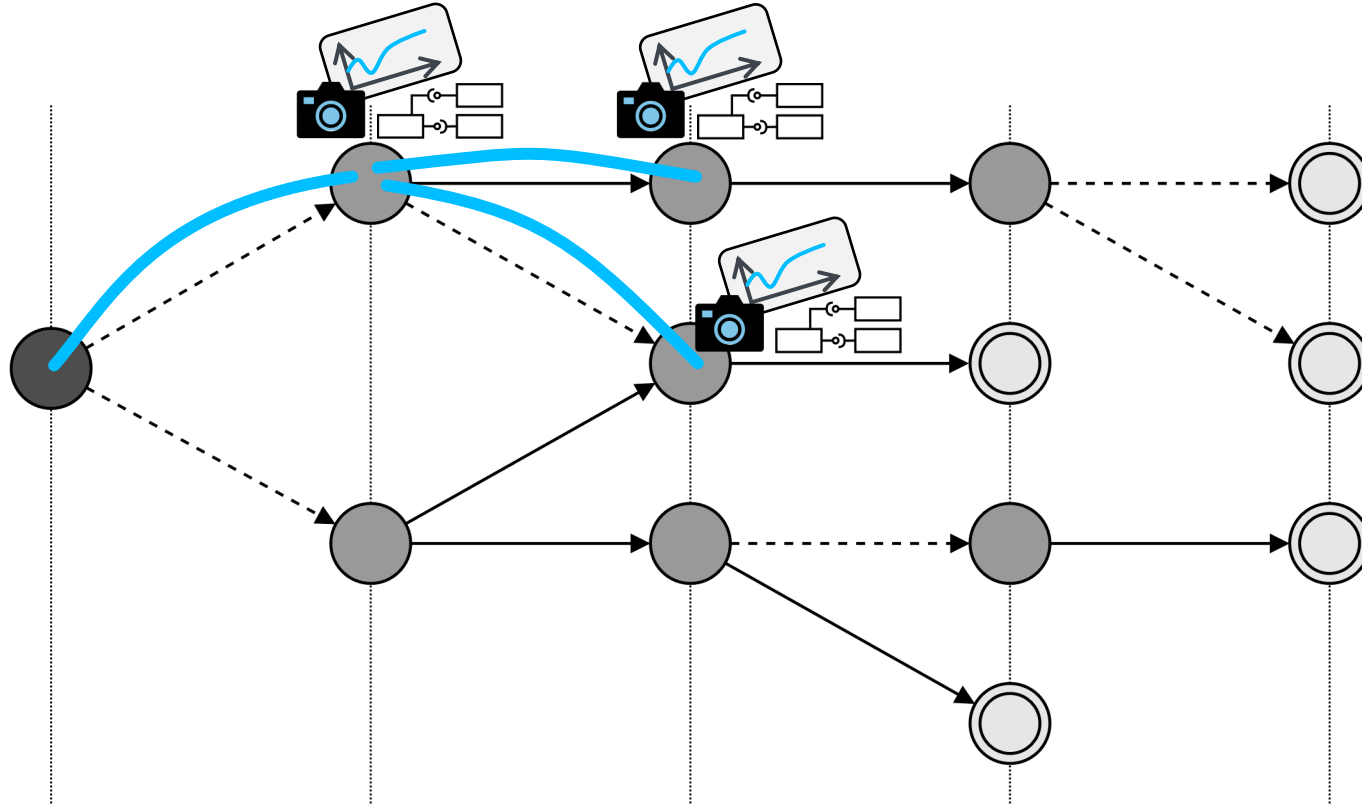
State Graph – SimuLizar



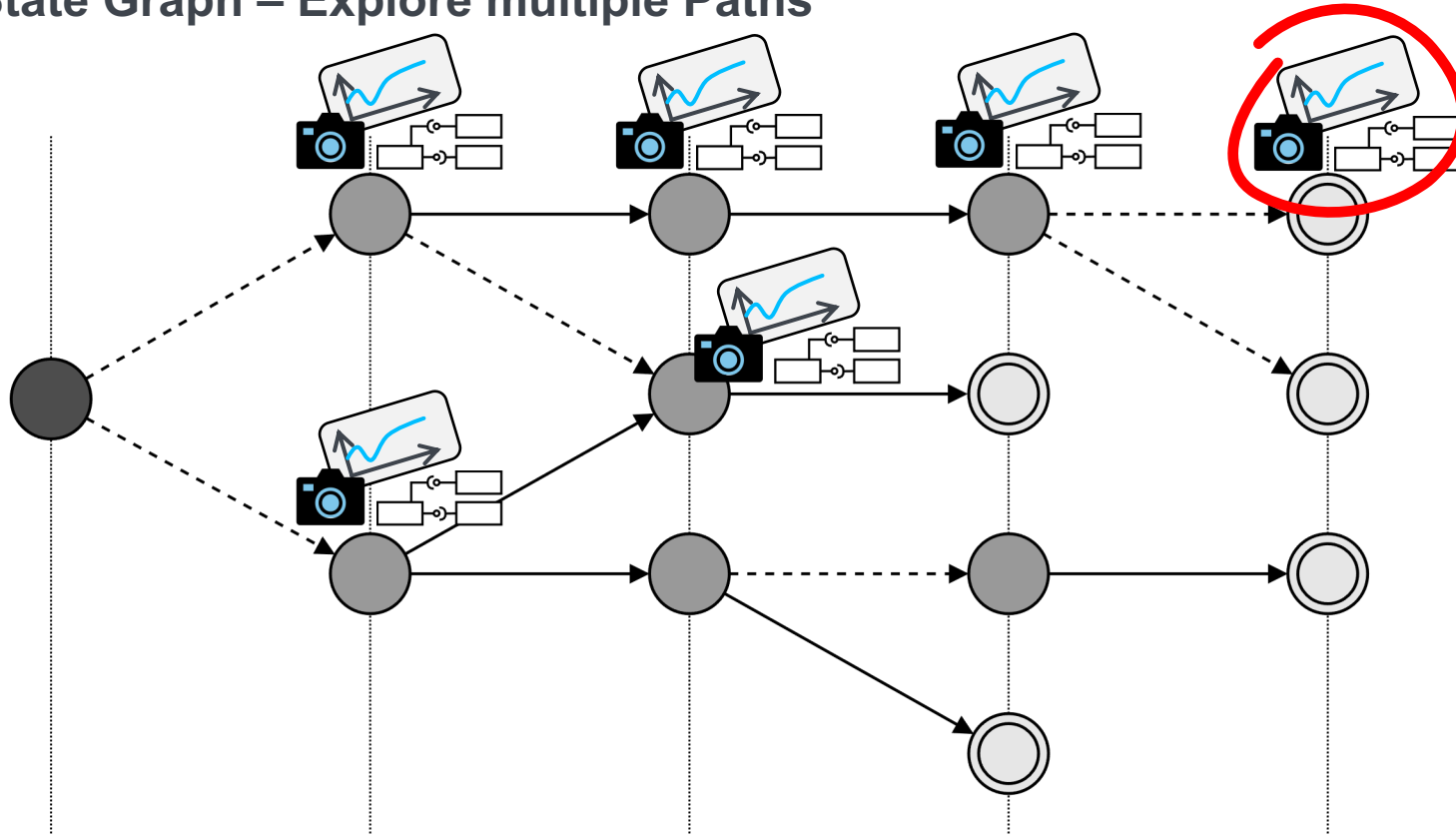
State Graph – Explore multiple Paths



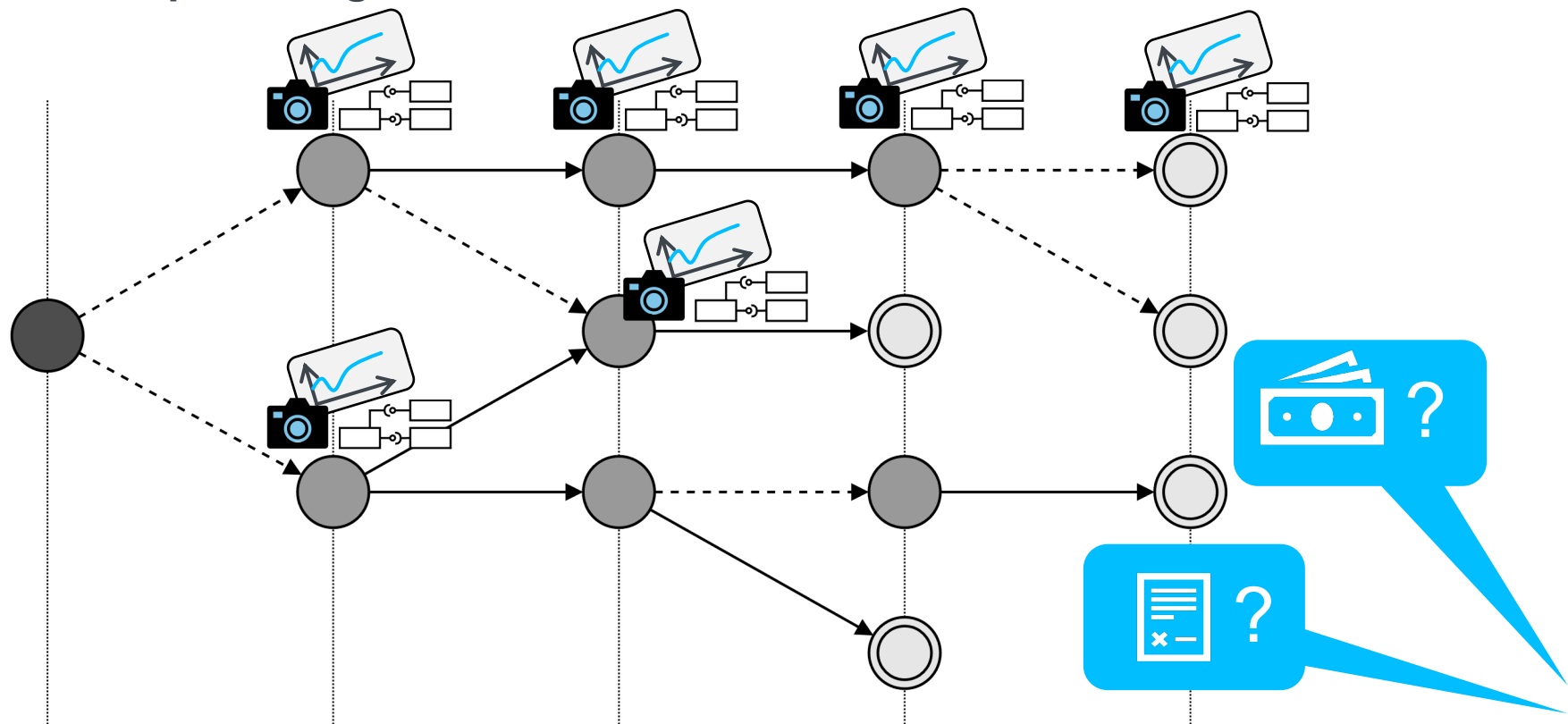
State Graph – Explore multiple Paths



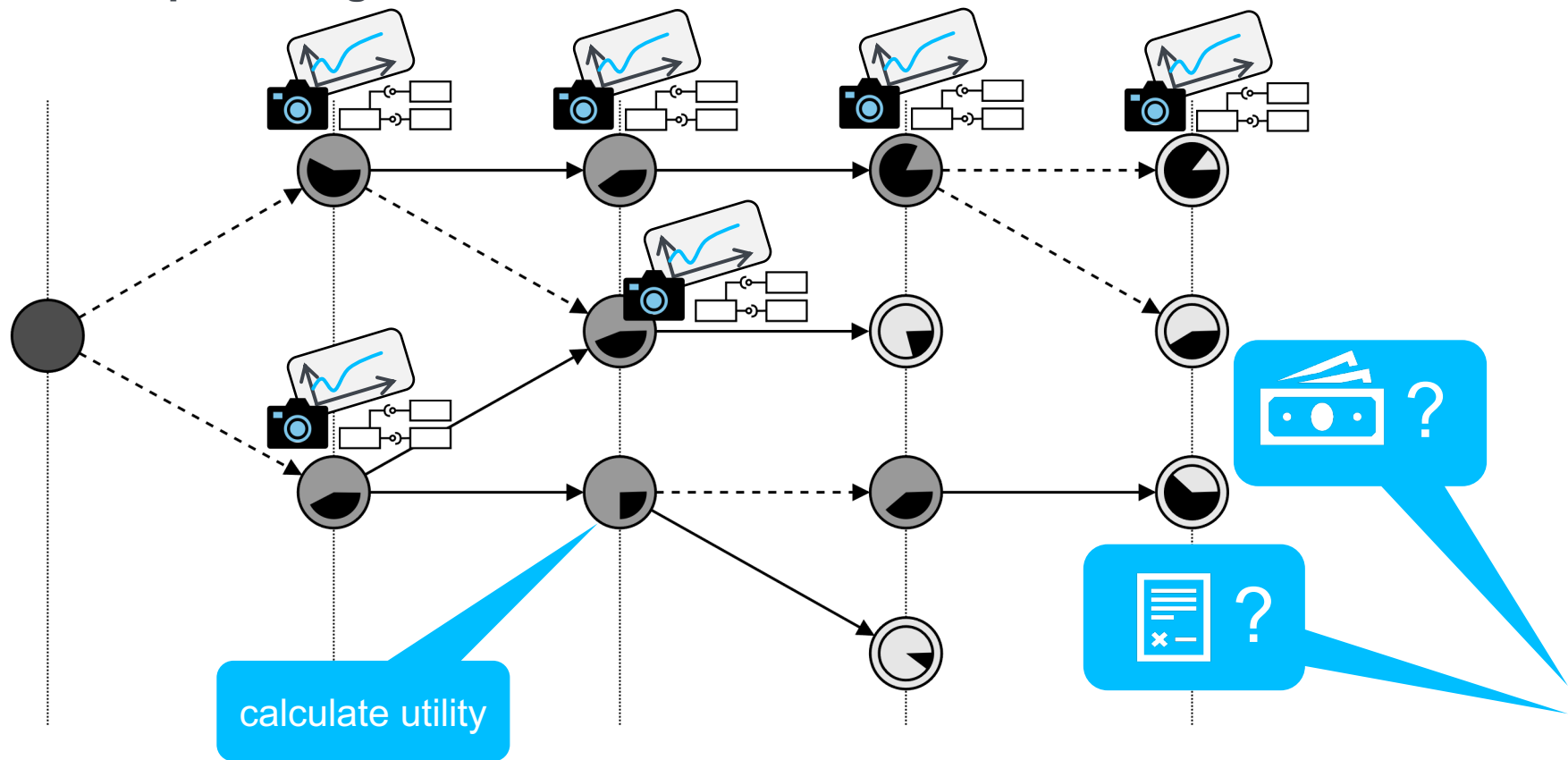
State Graph – Explore multiple Paths



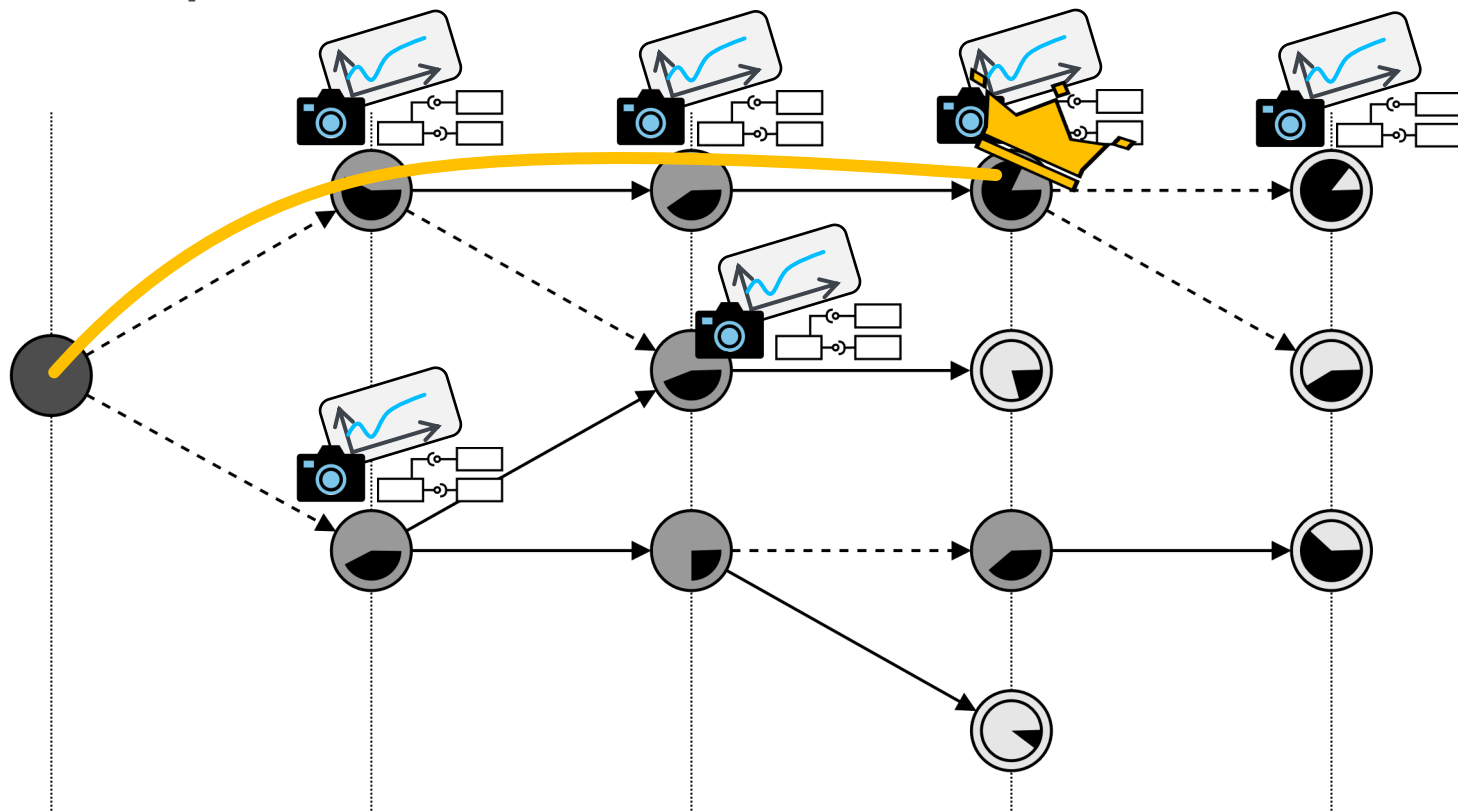
State Graph – Judge the States



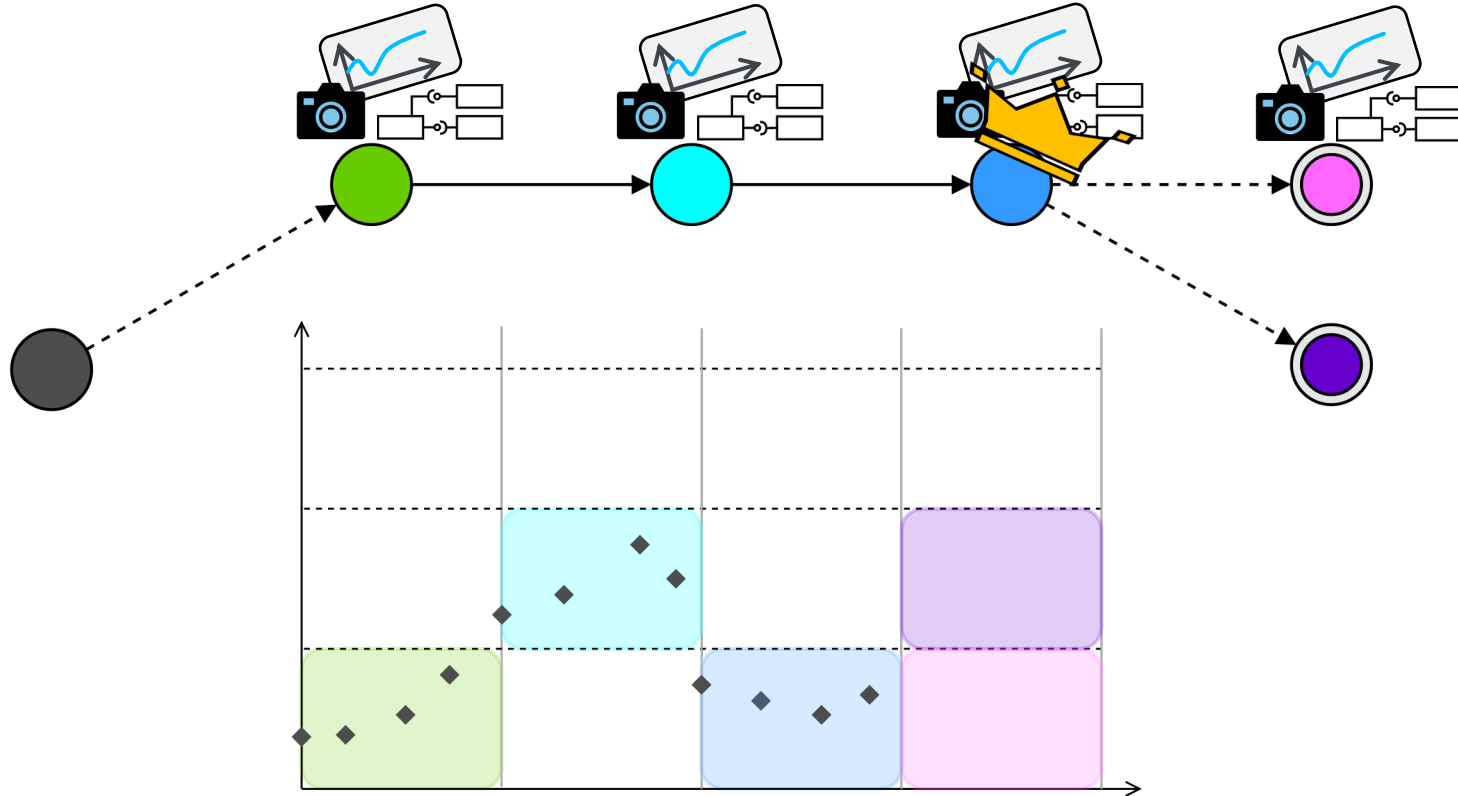
State Graph – Judge the States



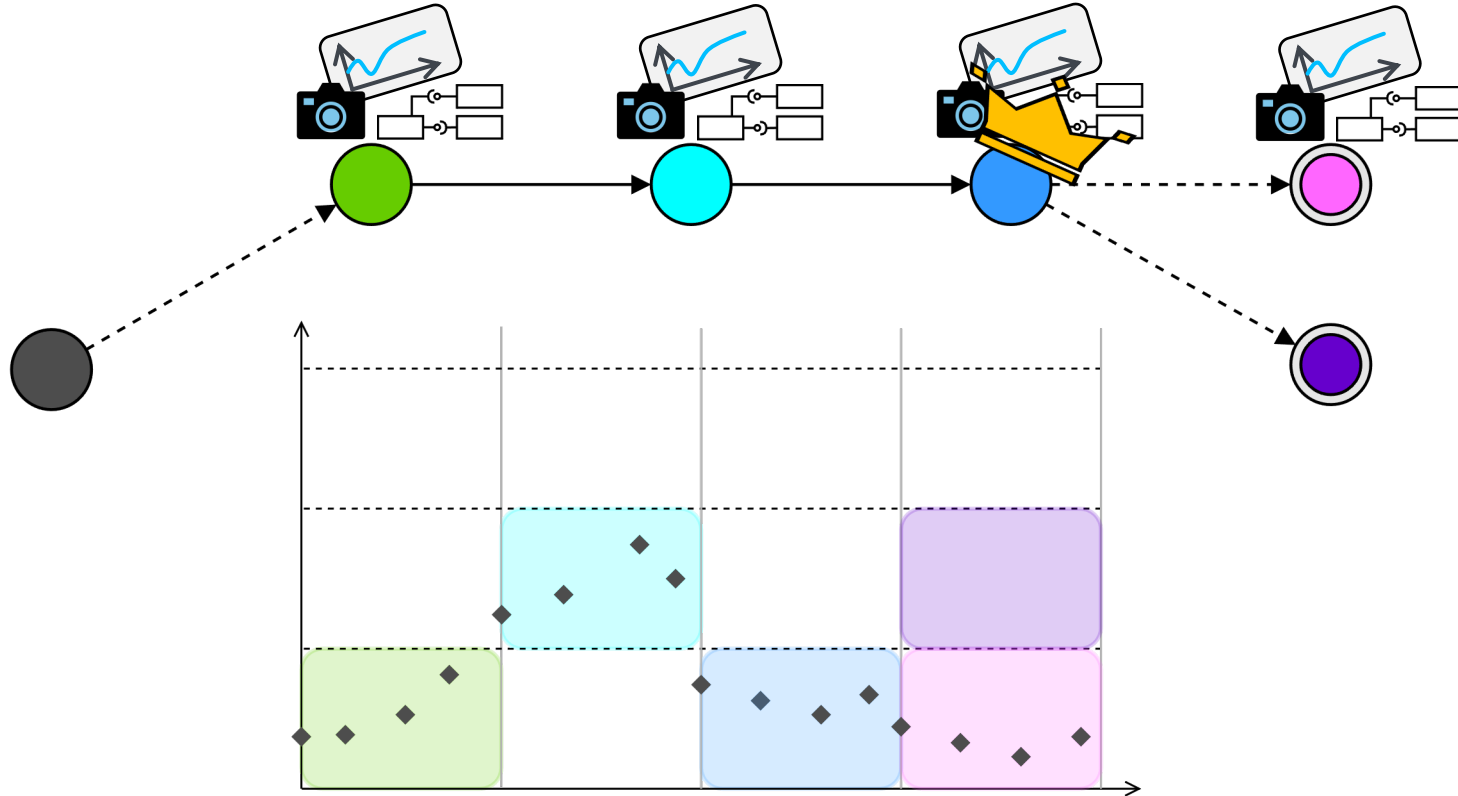
State Graph – The Desired State



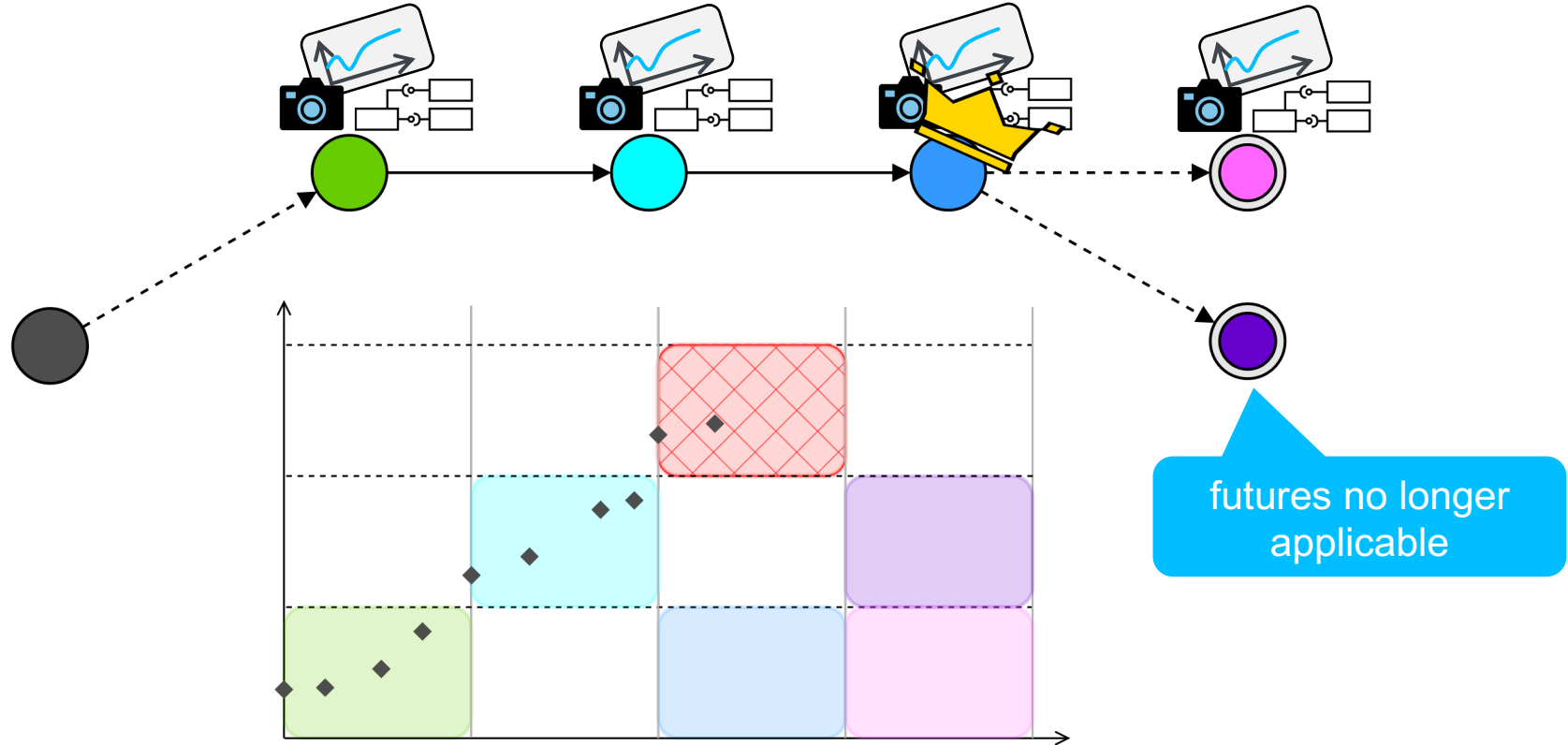
State Graph – Can we get to the Desired State?



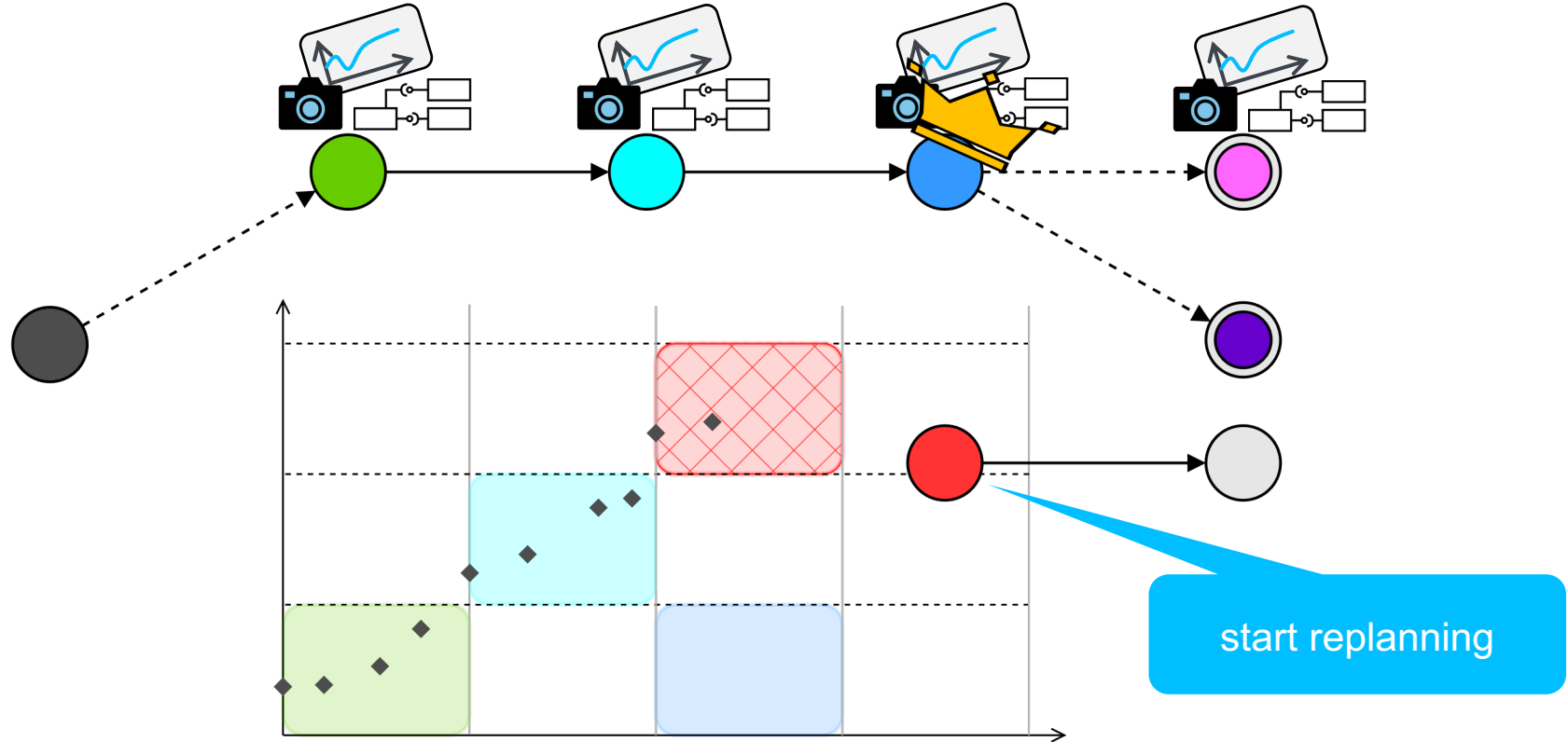
State Graph – Can we get to the Desired State?



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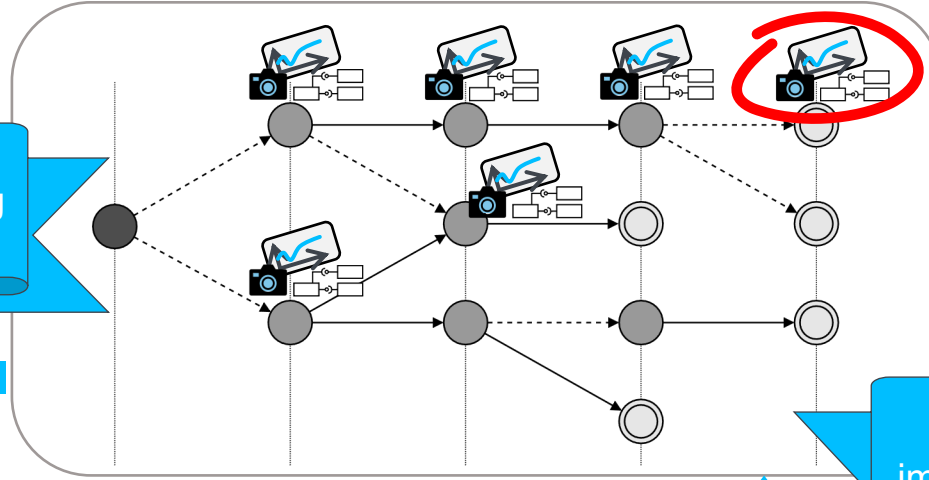


State Graph – Can we get to the Desired State?

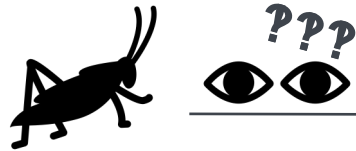


Summary

Use for explanations →
improved understanding
of SAS



Better plans →
improved performance



Develhopper

