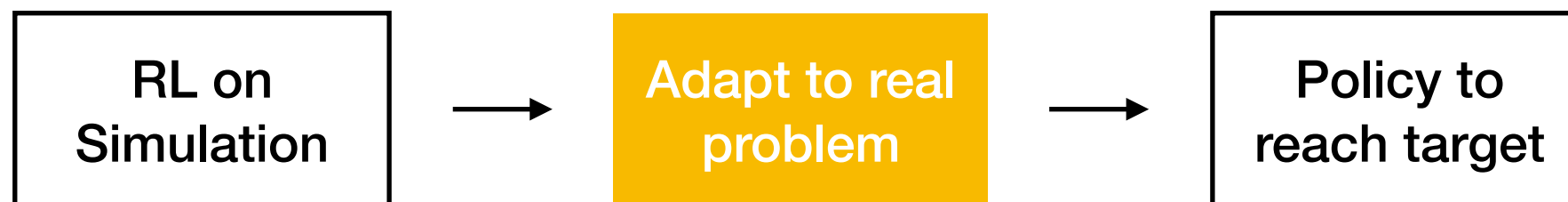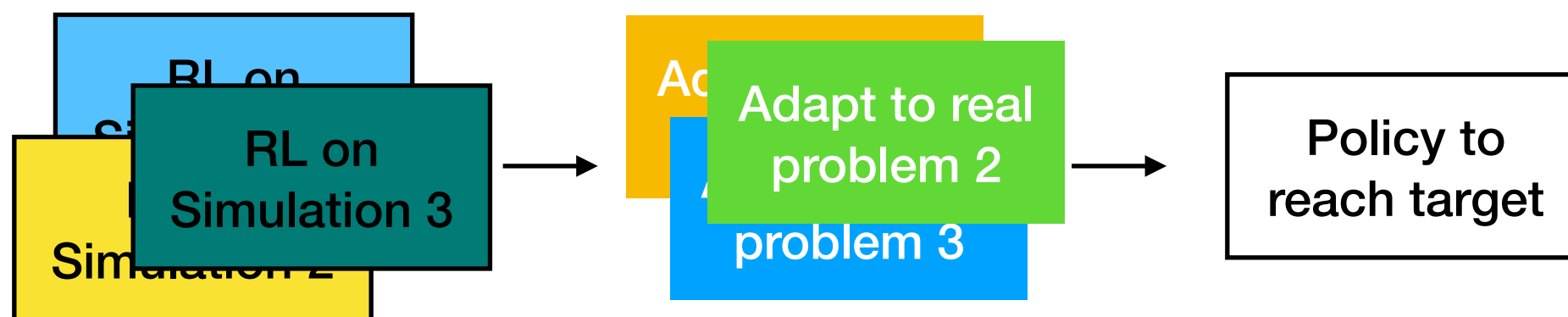# Part I - Meta RL

Motivation

- How we can use experience from some source domain to get into a position, where we can solve more efficiently or effectively new downstream tasks?

- Transfer learning: Using experience from one set of tasks for faster learning and better performance on a new task

Transfer learning

| RL on Simulation | → | Adapt to real problem | → | Policy to reach target |

Domain randomisation/multi task learning

| RL on Simulation 3 | → | Adapt to real problem 2 / problem 3 | → | Policy to reach target |

Can we do this smarter? → Meta-learning

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