Actions (a_t): Adjust Focus and Power to their optimal values

Laser Cutting Parameter Agent
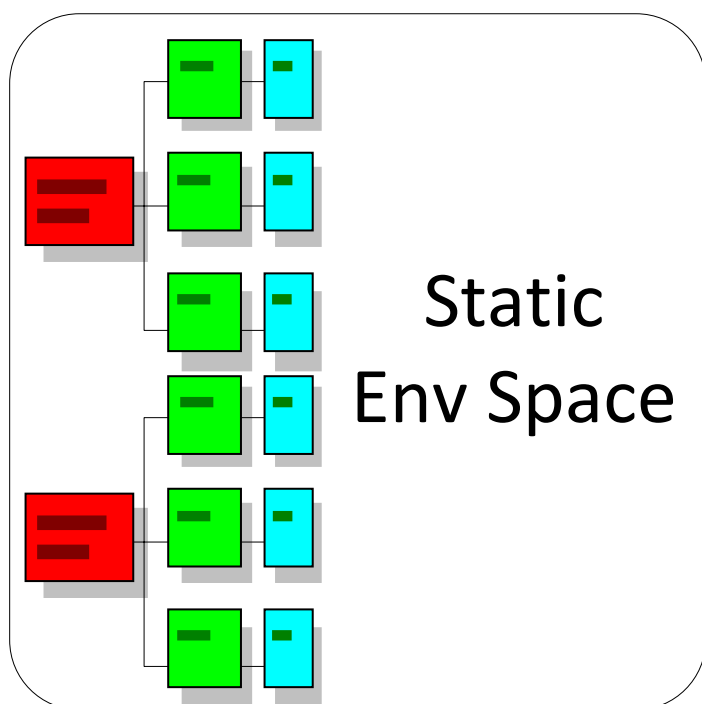
A

Mirror

Laser beam (Power)

Lense

Air assist

Focal Length (Focus)

Material

Environment
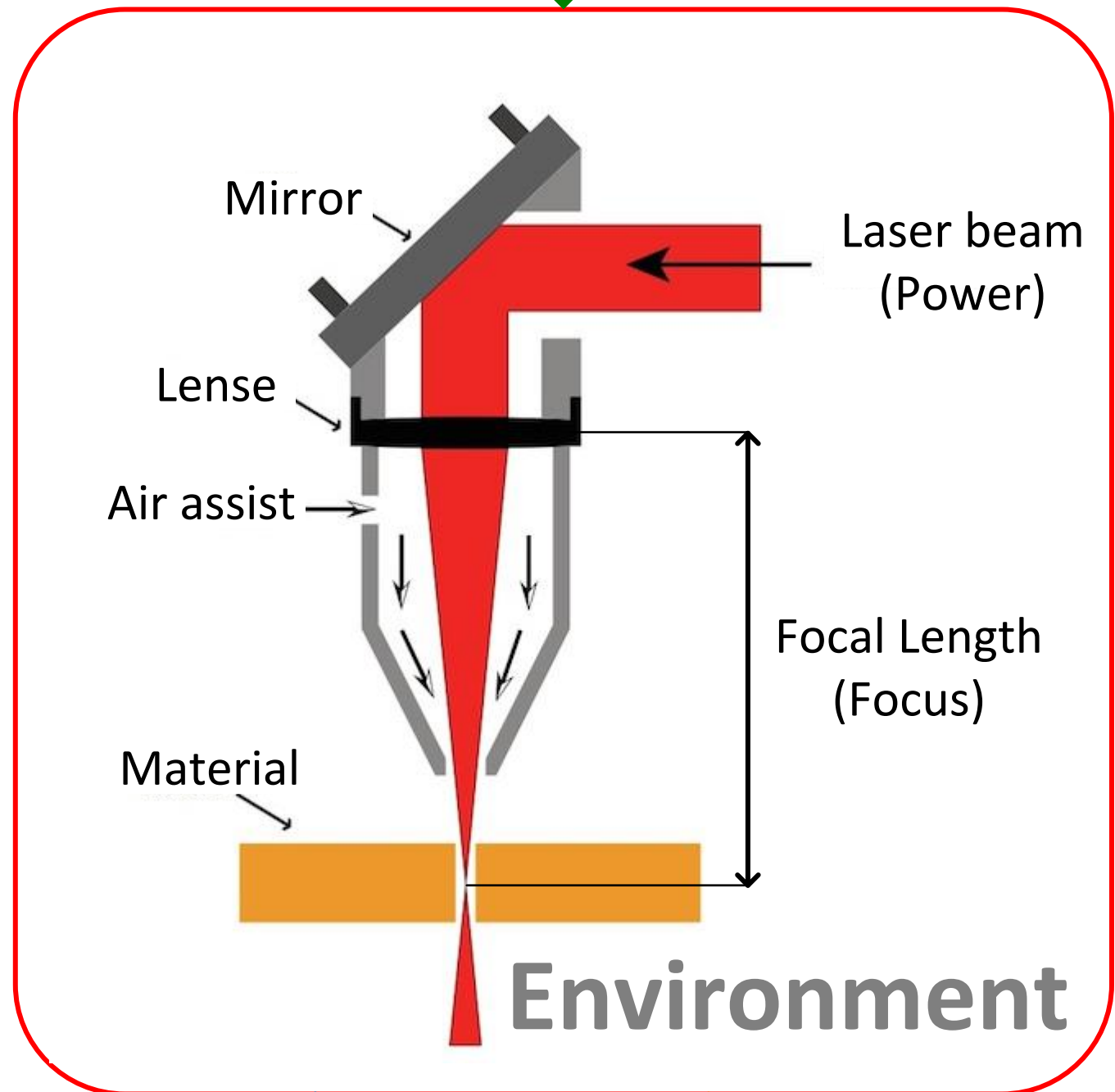
States (s_t): Focus, Power s_{t+1} r_{t+1}

Rewards (r_t): Line Width, Brightness, Taper Size

Stage 1

Stage 2
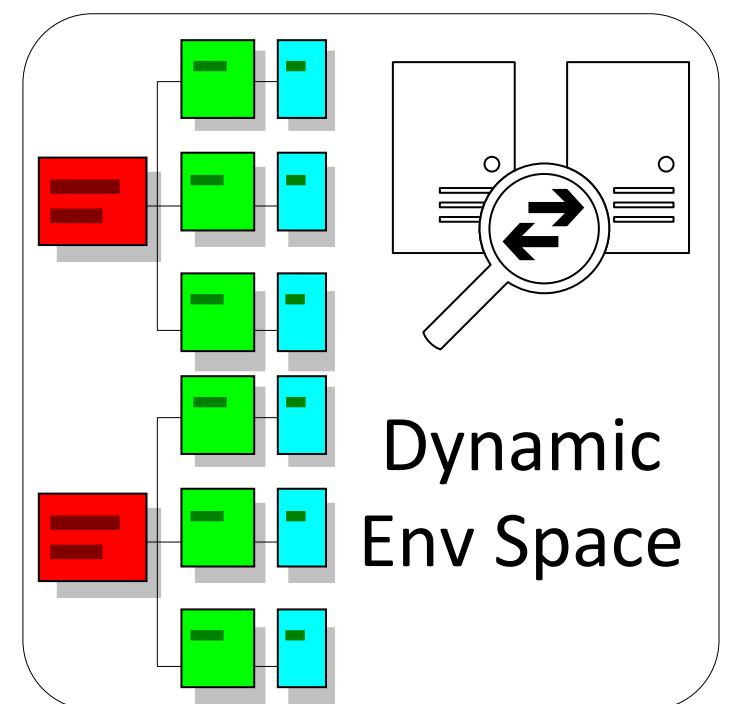
Stage 3

Static Env Space

Dynamic Env Space

Dynamic Env Space

Focus Optimization
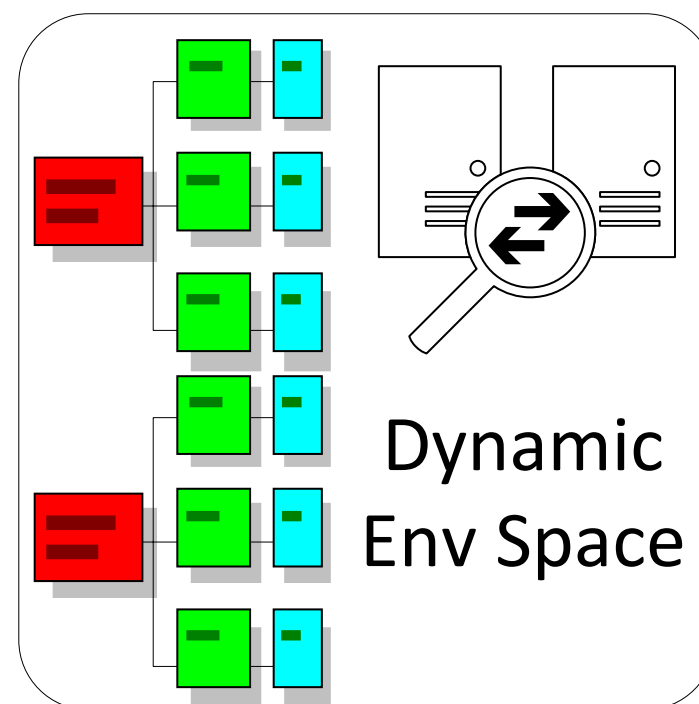
Power Optimization

Taper Optimization

Current State Possible Actions Next State

Repeat these stages over multiple Lots