

TASKS

	HUMAN	ROBOT
γ_1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
γ_2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\vdots	\vdots	\vdots
γ_k	<input type="checkbox"/>	<input type="checkbox"/>

incoming
task γ

Who should
execute
task γ ?

trust in robot τ_{γ}^R

trust in human τ_{γ}^H

robot cost c^R

human cost c^H

task reward r_s

Artificial
Trust-Based
Task Allocator



Human H



Robot R