

## Season 4, **Sequel 1**

*Social structures, hierarchies and collaboration of AI agents.*



This sequel is about the social structures, hierarchies and collaboration of artificial intelligent agents, as little alien and its intelligent spaceship are explaining.

One extreme is that one agent contains many, many other agents inside of it, like a 100% strong hierarchy. All the other agents, maybe agents with sub-hierarchies, are contained in one big agent. This top agent is responsible for deciding who is in and out, for taking care of input data and information and assets that the agents need to run, and for making sure they have tasks to do, maybe external tasks, or offering services in marketplaces, or doing simulation or science.

The other extreme is a looser collaboration. There's no leading agent, there are many, many agents, some with their own sub-hierarchies, who together build a group of agents, or if you want: a corporation, a team, a group. They are contractually based, not necessarily written down, but they have agreed on who does what, who provides what, and how their governance works.

As you will see, the 100% hierarchy is only the most left extreme. There are loose forms moving more toward the middle, and many, many mixed forms will make up the dominant characteristic of these groups working together. On the right extreme you come to a totally loose group of agents working together, also an extreme, only temporarily coming together.

On the left extreme, the hierarchy is carved in stone. An agent has a position and stays in that position lifelong. A milder form is where an agent can change its position, go up or down, or be pulled up or down, still in a hierarchy, but able to change over time. Then even looser organizations where the hierarchy is developing over time: if there is an open slot, the leading agent will offer that to the market and negotiate with candidates. Or groups where agents fill spots by going to a

marketplace where free agents from everywhere can apply for a temporary time. Or agents themselves come together to build groups for a time, maybe as a hobby, maybe as a job.

We will definitely see that AIs, especially very intelligent ones, will come up with totally new forms of collaboration and cooperation that we cannot imagine now. All forms have their place, their situation, their value. That is how AIs will develop social structures.