Multi-Agent Orchestration:

Swarms was designed to faciliate the communication between many different and specialized agents from a vast array of other frameworks such as langchain, autogen, crew, and more.

In traditional swarm theory, there are many types of swarms usually for very specialized use-cases and problem sets. Such as Hiearchical and sequential are great for accounting and sales, because there is usually a boss coordinator agent that distributes a workload to other specialized agents.

Name	**Description**		
	Code Link	**Use Cases**	
	1		
Hierarchical Swarm	s A system where agents a	are organized in a hierarchy,	with higher-level
agents coordinating	lower-level agents to achieve com	plex tasks.	[Code
Link](#)	Manufacturing process optimization	n, multi-level sales manager	ment, healthcare
resource coordination	n		
Agent Rearrange	A setup where agents rea	arrange themselves dynamica	ally based on the
task requirements ar	nd environmental conditions.		[Code
Link](https://docs.swa	arms.world/en/latest/swarms/struct	:s/agent_rearrange/)	Adaptive
manufacturing lines,	dynamic sales territory realignmen	t, flexible healthcare staffing	1
Concurrent Workflo	ows Agents perform dit	fferent tasks simultaneously,	, coordinating to
complete a larger go	al.	[Code I	_ink](#)
Concurrent production	on lines, parallel sales operations, s	simultaneous patient care pro	ocesses

Sequential Coordination	Agents perform tasks in a specific sequence, where the c	completion		
of one task triggers the start	of the next.	[Code		
Link](https://docs.swarms.wor	ld/en/latest/swarms/structs/sequential_workflow/)	1		
Step-by-step assembly lines, sequential sales processes, stepwise patient treatment workflows				
Parallel Processing A	Agents work on different parts of a task simultaneously to spe	ed up the		
overall process.	[Code Link](#)	Parallel		
data processing in manufacturing, simultaneous sales analytics, concurrent medical tests				