

(Really) Brief History of Computer Science			
1950 1960 1970 1980 1990 2001- "Programming in the Small" "Programming the Small" the Swarm"			
Machines	"Progr. Monolithic Computers	amming in the Large" Fixed Networks of PCs	Billions of small, cheap unreliable devices in physical environments
Programming Methods	First High-Level Languages	Modular Programming, Interfaces, Objects	Swarm Programming, Group Behaviors
Reasoning Tools	Manual Proof of Properties of Trivial Programs	Tools for Reasoning about Distributed Programs	Tools for Reasoning about Groups in unpredictable environments
20 Sept 2001	Swarn	n Programming	2







