Information Sharing and Decision Making

Dr. Nils Carstengerdes

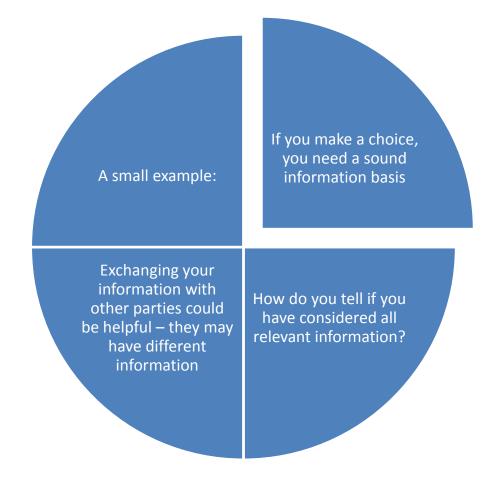
DLR, Institute of Flight Guidance

Nils.Carstengerdes@DLR.de



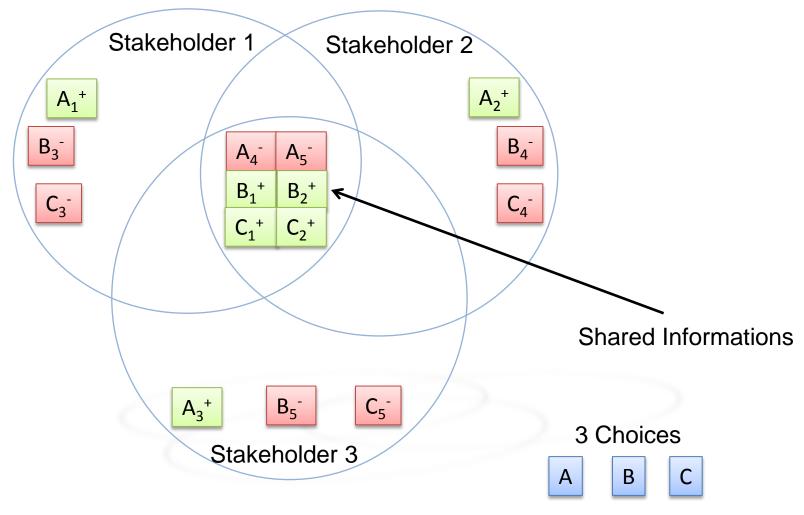


Why Is It Important To Talk About Information Sharing?



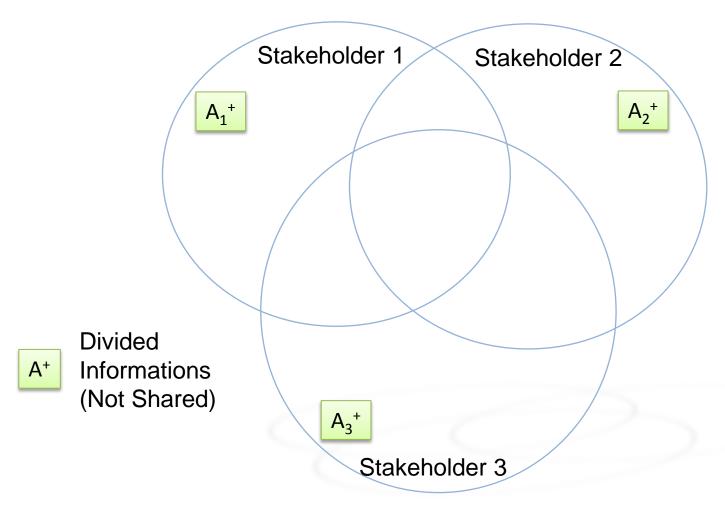


Example: 3 Stakeholder and 3 Choices



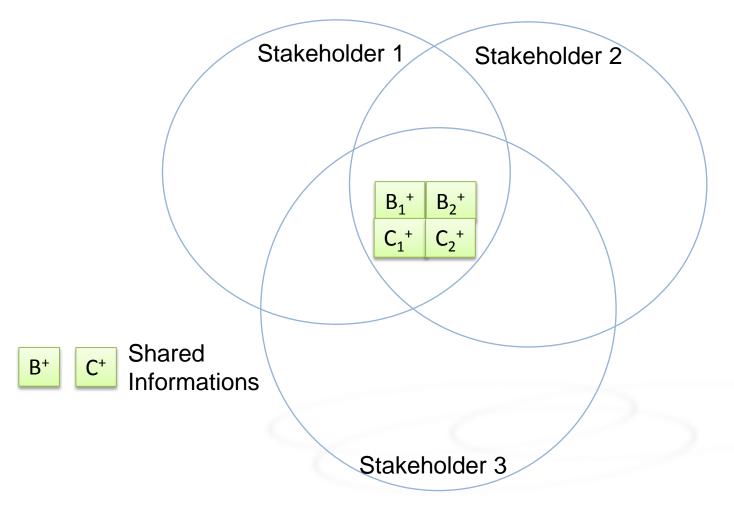


Example: Individual Positive Information About Choice "A"



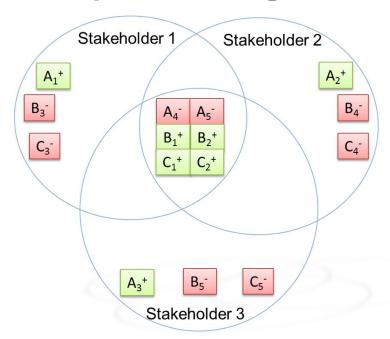


Example: Shared Positive Information About Choices "B" and "C"





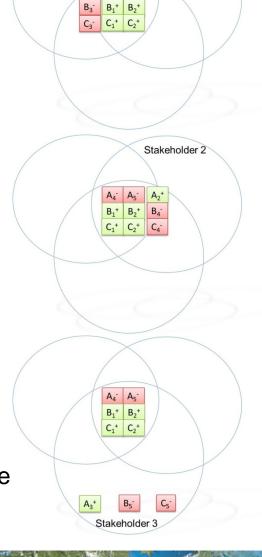
Example: The Logical Choice



Based on the shared and the individually available, but not shared, information the decision would be in favor of

B or C

(for every Stakeholder B & C seems to be a better choice than A)



Stakeholder 1

A₄- A₅-



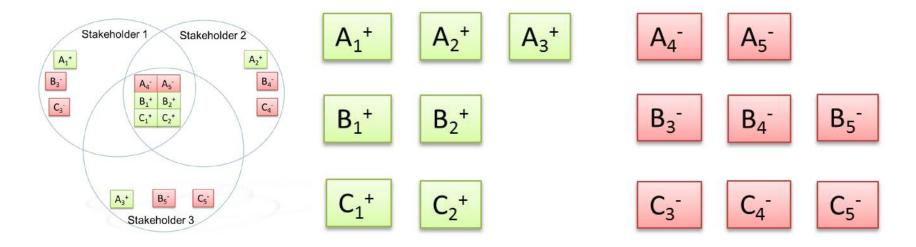
Example: The Fallacy

BUT:

This leads to incorrect decisions, because informations are not weighted equally:

Shared informations

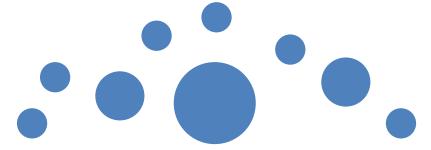
A⁺ are not shared and therefore only get low attention!





Which information is relevant?

How do you display it?



That is why information sharing is such an important feature of decision-making!



At which point in time?

What are the incentives to cooperate?



