

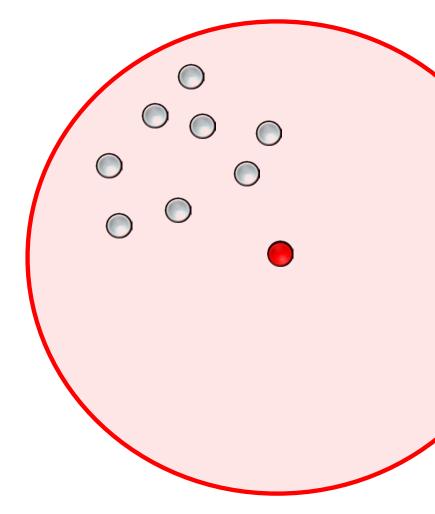
Stephan Holzer
Yvonne Anne Pignolet
Jasmin Smula
Roger Wattenhofer

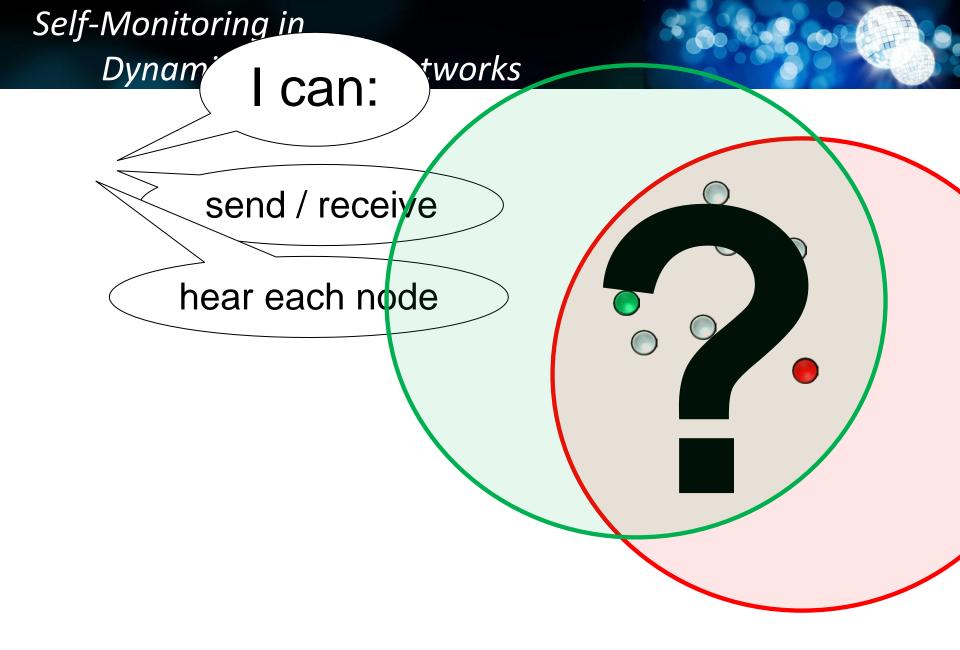
Self-Monitoring in Dynamic Wireless Networks Who is in the Problem: network? Update O(1)? ETH Zurich – Distributed Computing Group Stephan Hoize

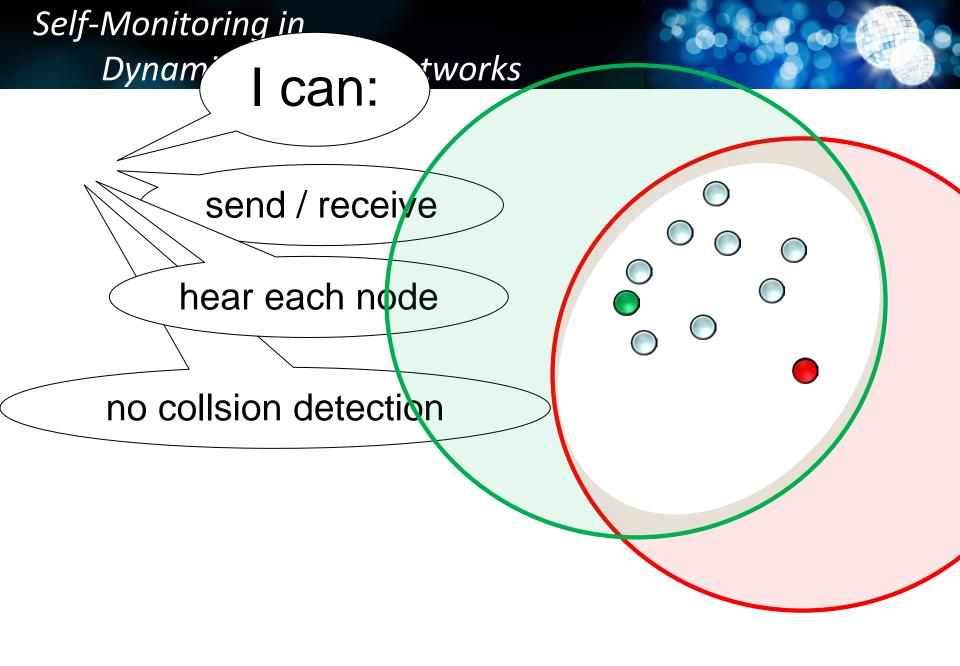
Self-Monitoring in Dynam | can: tworks

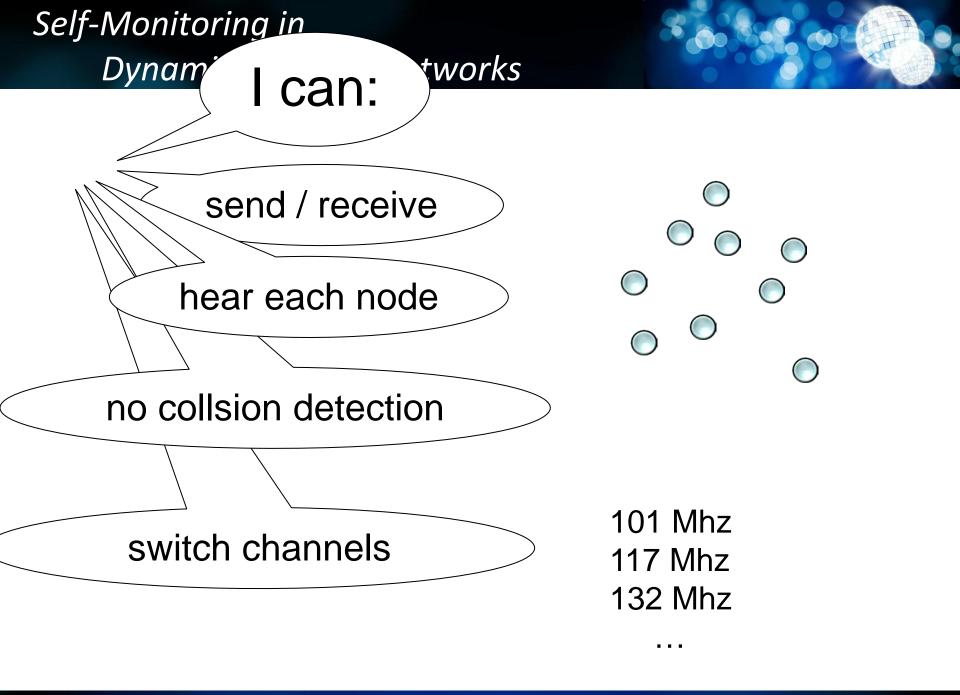
hear each node

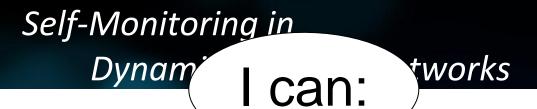
send / receive











send / receive

hear each node

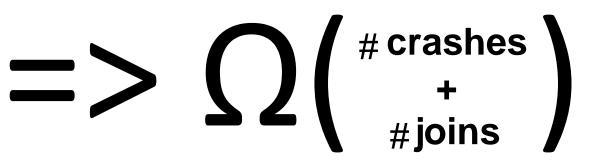
no collsion detection

switch channels

complexity

computation: free radio: time 1







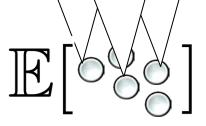
What can I do?





What can I do?

collision!



I am here

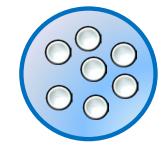
= ok



redundancy

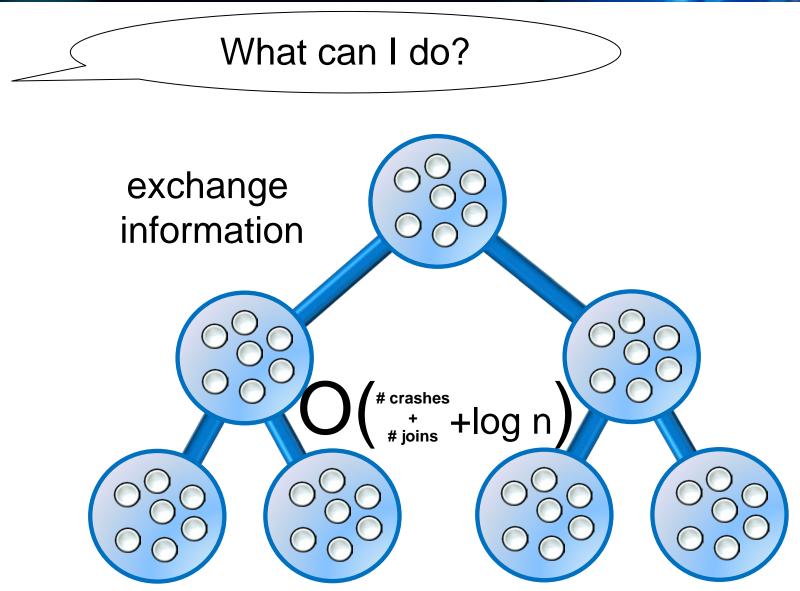








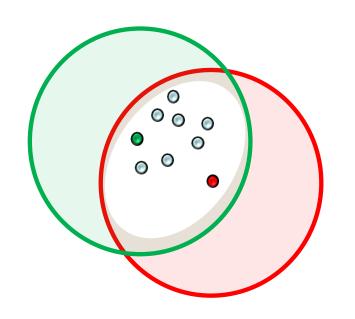


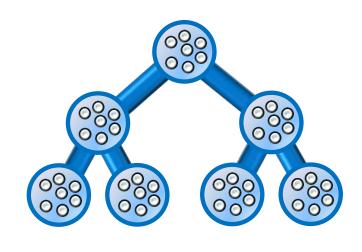


in Summary ...

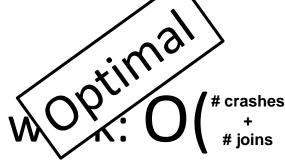
Update: who is in the network?

dynamics ...





Current v



$$O(^{\text{\# crashes}}_{\text{\# joins}} + \log n)$$

) w.h.p.

Thank You!

Questions & Comments?



Stephan Holzer Yvonne Anne Pignolet Jasmin Smula Roger Wattenhofer