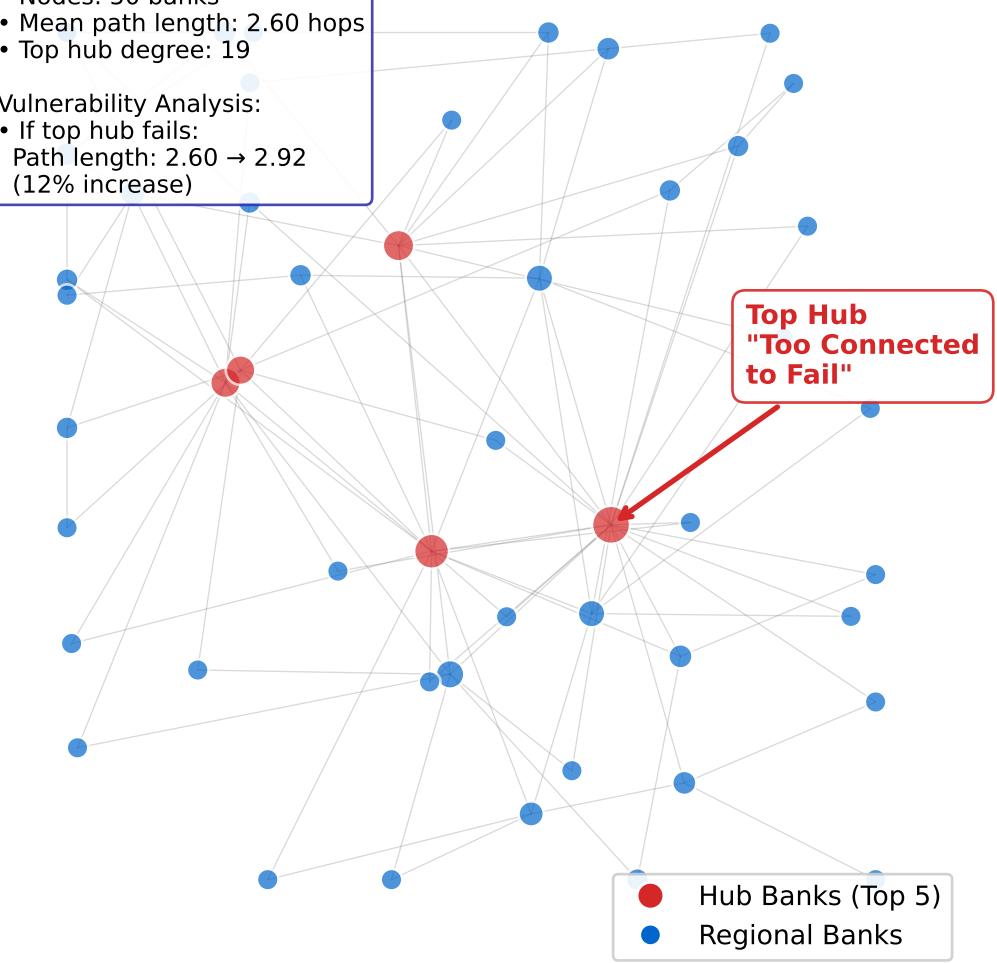


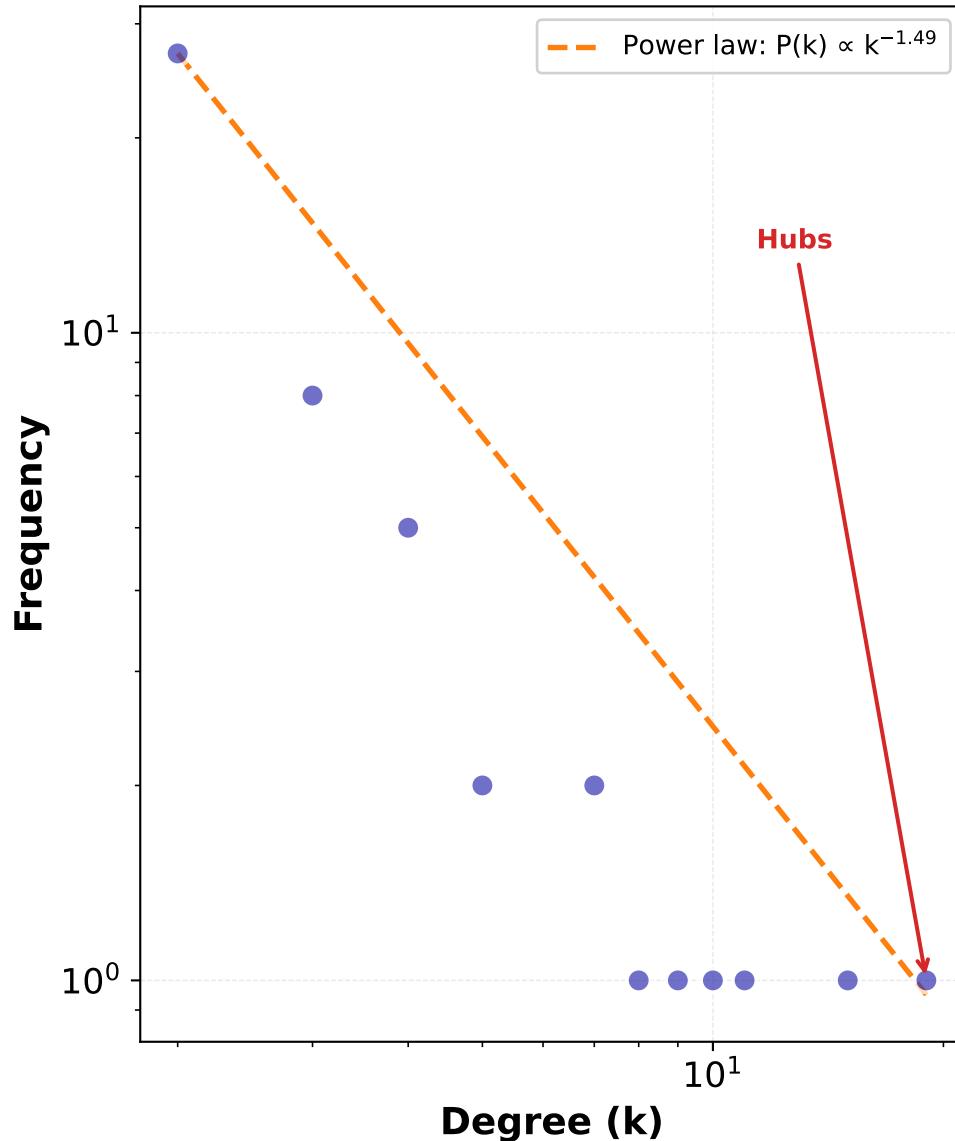
Correspondent Banking Network Topology (Barabasi-Albert Scale-Free Model)

Network Metrics:
• Nodes: 50 banks
• Mean path length: 2.60 hops
• Top hub degree: 19

Vulnerability Analysis:
• If top hub fails:
Path length: 2.60 → 2.92
(12% increase)



Degree Distribution (Scale-Free Property)



Theory: Barabási & Albert (1999), "Emergence of Scaling in Random Networks", Science