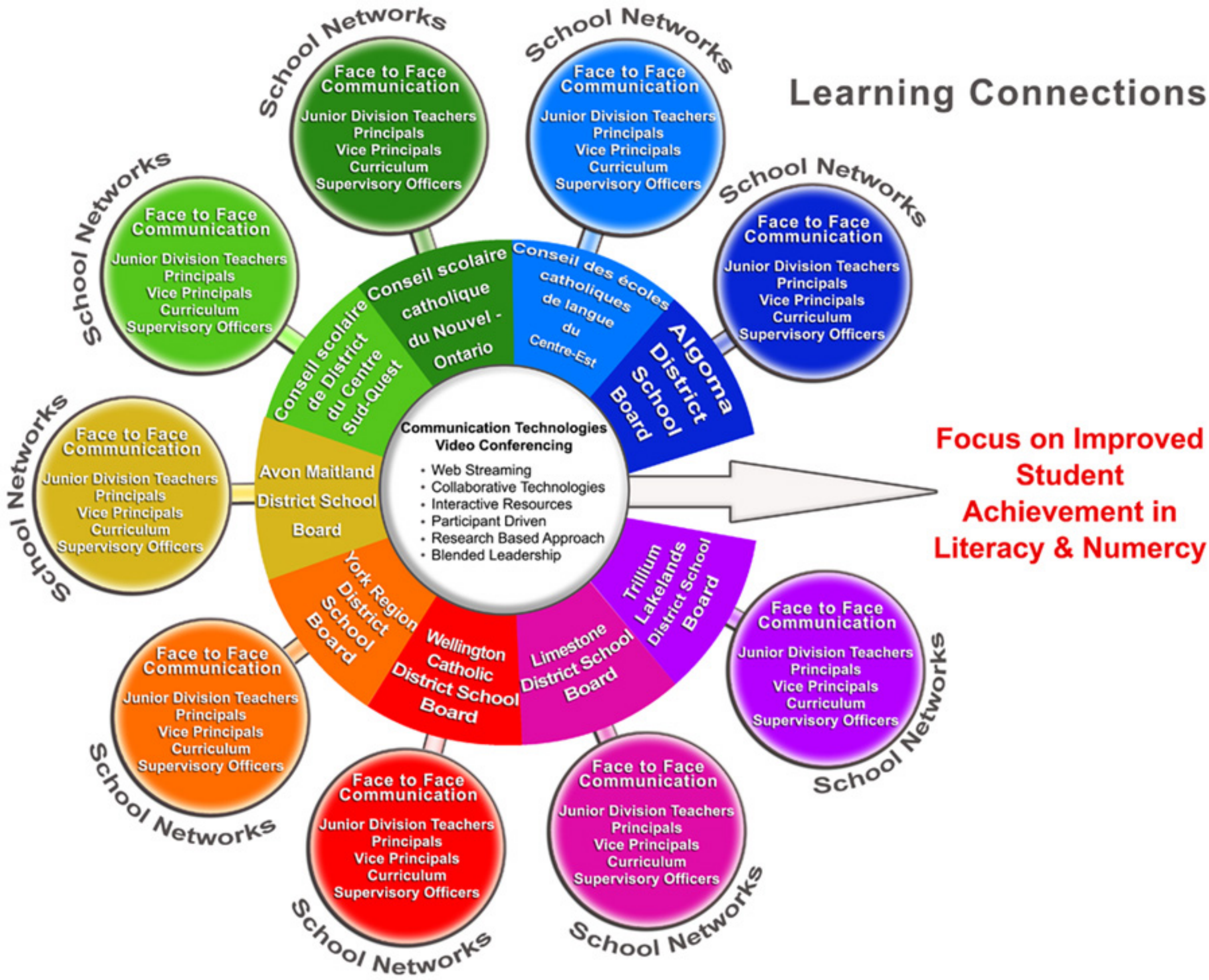Learning Connections