In this dissertation proposal, I investigate predictors and consequences of transactive memory systems (TMS) development. A transactive memory system is a shared system of who knows what within the group. Groups with well-developed transactive memory systems typically perform better than groups lacking such memory systems. In this dissertation, I study how communication enhances the development of transactive memory system and how turnover disrupts transactive memory systems and their relationship to group performance. More specifically, I examine how communication networks affect both the amount and the structure of communication, which in turn affects transactive memory system development. I also analyze how turnover disrupts the relationship between transactive memory systems and group performance. In addition, I examine how the communication network and turnover interact to affect group performance. I analyze these effects in three laboratory studies. The controlled setting of the experimental laboratory permits me to make causal inferences. Results promise to advance theory about transactive memory systems and communication networks.