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## Group maturity and agility

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## Human factors in SE?

- Is group dynamics a factor in your daily work?
- **A group/team:** Three or more members that interact with each other to perform a number of tasks and achieve a set of common goals (Keyton, 2002)

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## The Integrated Model of Group Development

80 % work-oriented,  
20% relation-oriented.

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## Group maturity can be measured

- The Group Development Questionnaire.

Wheelan and Hochberger, "Validation studies of the group development questionnaire," Small Group Research, vol. 27, no. 1, pp. 143-170, 1996.

- Measuring agility (tricky), behavior in connection to practices.

So and Scholl, "Perceptive agile measurement: new instruments for quantitative studies in the pursuit of the social-psychological effect of agile practices." In: Agile Processes in Software Engineering and Extreme Programming, Springer, pp. 83-93, 2009.

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## Research idea

- Agile groups are described as stage 4 groups.
- See how teams adopt agile practices over time.
- Adapt agile practices to the group maturity level.

Group Maturity and Agility, Are They Connected?  
- A Survey Study

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Gren L., Toekar R., and Feldt R. "Group maturity and agility, are they connected? - A survey study." In Proceedings of the 41st E3.ROMMICRO Conference on Software Engineering and Advanced Applications (SEA'A 2015), August 26-28, 2015.

**Thanks!**  
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"I think you should be more explicit here in step two."

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