# DESIGN OF A COMPUTER-SUPPORTED COLLABORATIVE LEARNING APPROACH

# TO PROMOTE POSITIVE INTERDEPENDENCE IN A GROUP ASSIGNMENT



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in class...

understand all the aspects of the assignment. For instance if it was about spatial analysis and even if I am not the one doing the spatial analysis I have just to do it and get to know how has \_ this person done the spatial analysis." If we had a group discussion the class was the perfect environment because at the [no outisde enemy = inter-group collaboration] class you were able to know students before starting the group work. what the other groups were OUTCO<sub>M</sub> doing, are you also at the right direction?, and the lecturers were able to pop in and see if you were working well. So the classroom was the perfect place for group discussion. " Goals **RECOMENDATIONS** 7. Keep the classroom as the place where students can work in group, physically interact with group members, across groups and staff. 8. Invite students to choose a name for the **POSITIVE** group as it stimulates positive identity INTER-Resources **Identitity** interdependence. DEPENDENCE Groups (5)  $\Omega$ ▶ Planning for Sustainability in Enschede 1- THE FINISHERS **Tasks** Planning for Sustainability in Enschede 2- BIZCK-T ▶ Planning for Sustainability in Enschede 3- THE ENTREPENEURS ... ▶ Planning for Sustainability in Enschede 4- FANTASTIC FOUR ▶ Planning for Sustainability in Enschede 5- THE DREAMERS

My goal was, regardless of whether we have to finish the assignment; I had to

#### **RECOMENDATIONS**

- 1. Add clear learning objective to the group work.
- 2. Make more explicit why group work
- is relevant for the assignment. 3. Improve instructions and discuss with students face to face if they have
- difficulties interpreting the assignment. 4. Reconsider the use of WebPA to peer assess participation, preferably within LMS and in consultation with

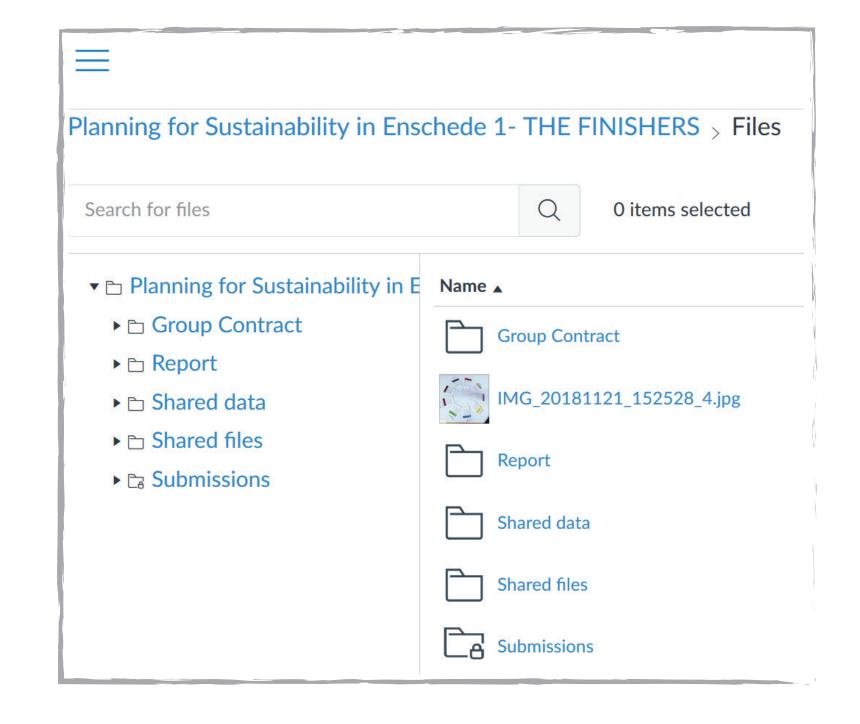
Group assignment - Planning for Sus-Published Edit
■ tainability in Enschede Please find here the detailed instructions for the group assignment. Supporting material and lectures are available at this page: Planning for sustainability - Lectures and Here in CANVAS you can find your group page (also under People ) where you can share data, work in progress and discuss with your group members. If you have any question please do not hesitate to use this general discussions section: Do you have

> [put] different strengths together to succeed. "

### **RECOMENDATIONS**

any question in relation to the group work?

- 5. Keep in LMS group pages as students valued the possibility of storing and sharing data within CANVAS.
- 6. Keep group dynamics workshops and evaluate possibility of introducing social skills as part of the core training in the MSc Geo-information Science and Earth Observation (e.g. during academic skills or internationalization).



The quantitative analysis shows a slight improvement in the perception of positive interdependence after the group work. The mode and mean in positive interdependence increased from 4 to 5 although the standard deviation and strongly disagreement responses increased.

We work directly with each other We relate to each other to do the activities Interaction among classmates is necessary to do the task Groupmates relate and interact during tasks The better each member of the group does their homework, the better results the group gets It is important to share materials, information to do the tasks We cannot finish an activity without the contributions of our colleagues My colleagues help is important in completing the tasks

Percentages

a

Strongly Disagree

Disagree

Undecided

Agree

Strongly Agree

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Promotive interaction and positive interdependence responses a- before group work, b- after groupwork