Parallel Computing

Exercise 4 – MPI Inter process communication

Andres Rodriguez, 21th May 2015

Homework 4 - Remember

✓ **Deadline**

    31.05.2015 - 11:59:pm

✓ **E-mail**

    Andres Rodriguez
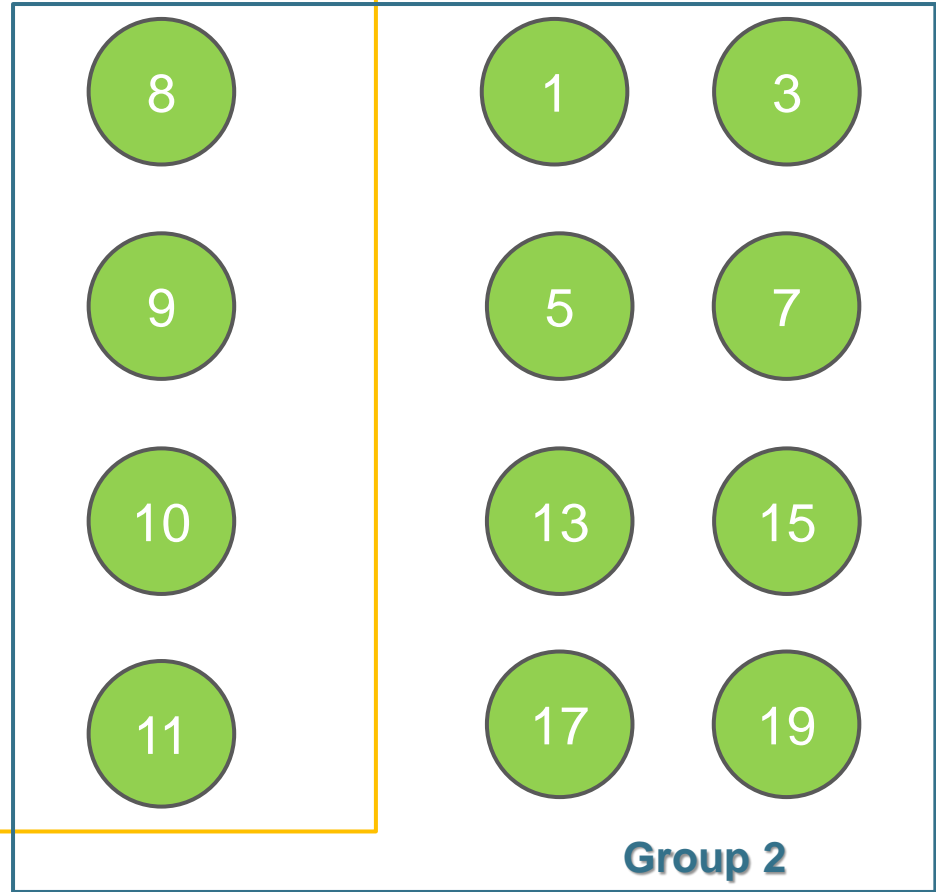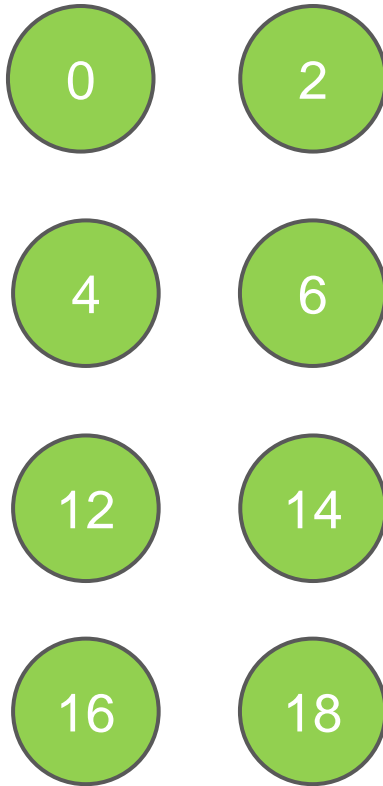   a.rodriguez-escobar@tu-braunschweig.de

✓ **Content**

    ZIP file including   - Source code
                                 - Written report as *.pdf file

Communnication Groups

Communnication Groups

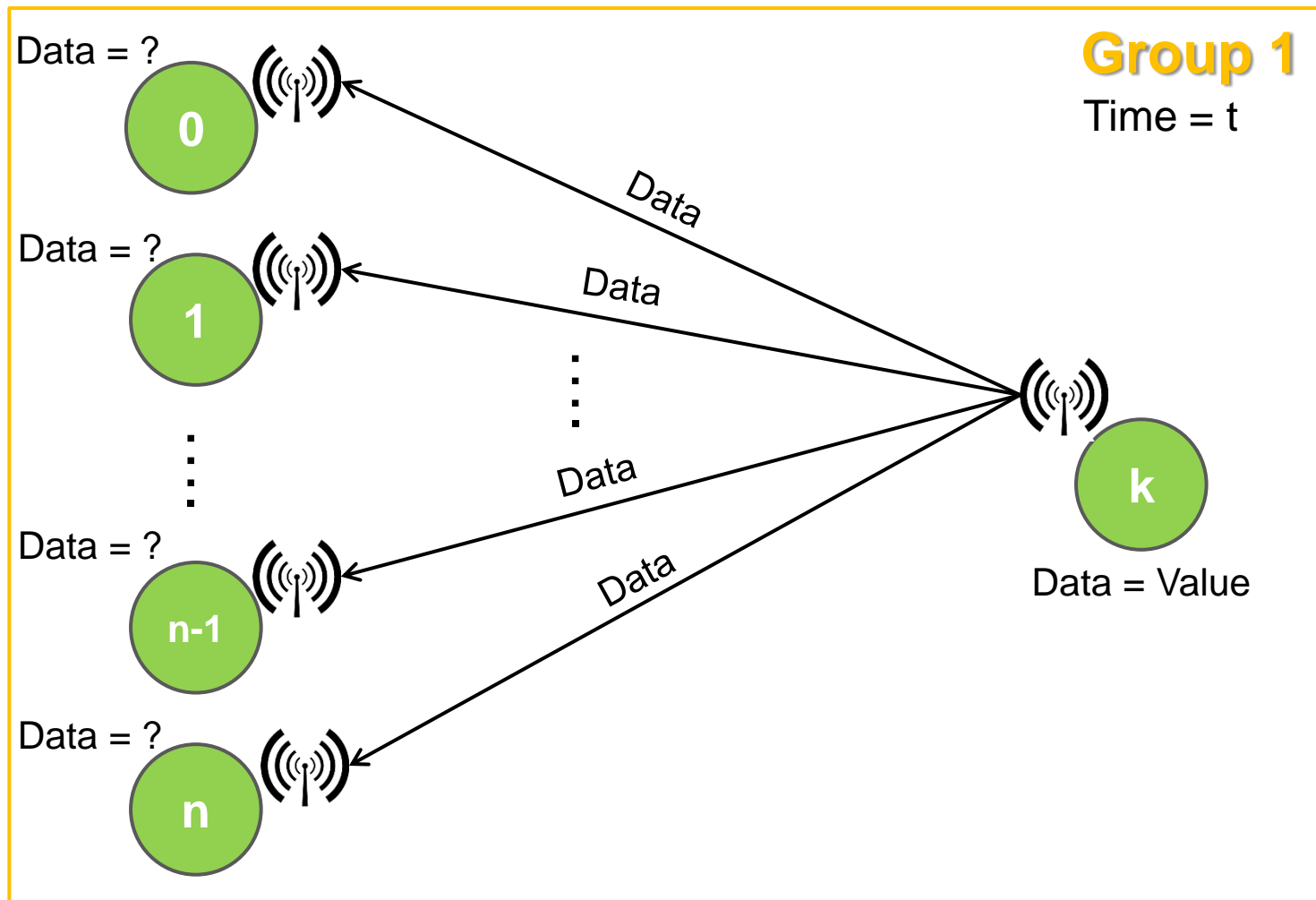✓ **General steps for create new communicators**

1. Extract handle of global group from MPI_COMM_WORLD using **MPI_Comm_group**

2. Form new group as a subset of global group using **MPI_Group_incl**

3. Create new communicator for new group using **MPI_Comm_create**

4. Determine new rank in new communicator using **MPI_Comm_rank**
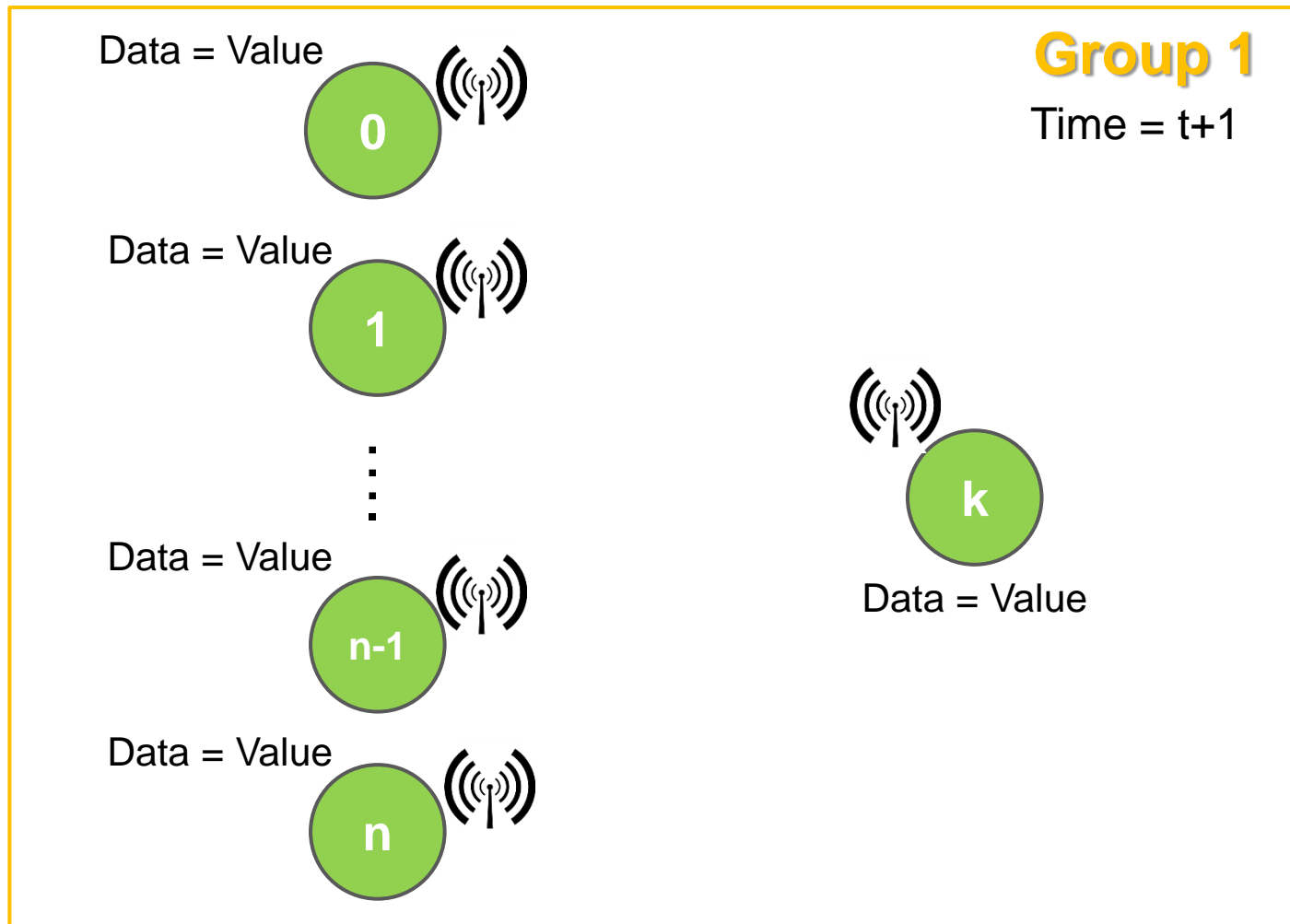
Creation of Groups and Communicators

-

Intersected groups example

MPI – Broadcasting

MPI – Broadcasting

Broadcasting Operation

-

"Manual" and Command (Wrapped) versions

Summarizing example

-

Communicators and Broadcast