

CD2: Project



Info on Team Project for CD2

LeongHW
(Summer 2016)

Project Details:

Project Steps:

- ❖ Read/Build interaction network from Data;
- ❖ Compute communities in network;
- ❖ Visualize the communities;
- ❖ Analyze communities;

Team Project for CD1

**Team Project
(3 per team)**

**Working as
A TEAM**

PLAN...

Do Project

Write Report

Present Project

**Identify Strengths
and Weaknesses**

Identify Project Risks

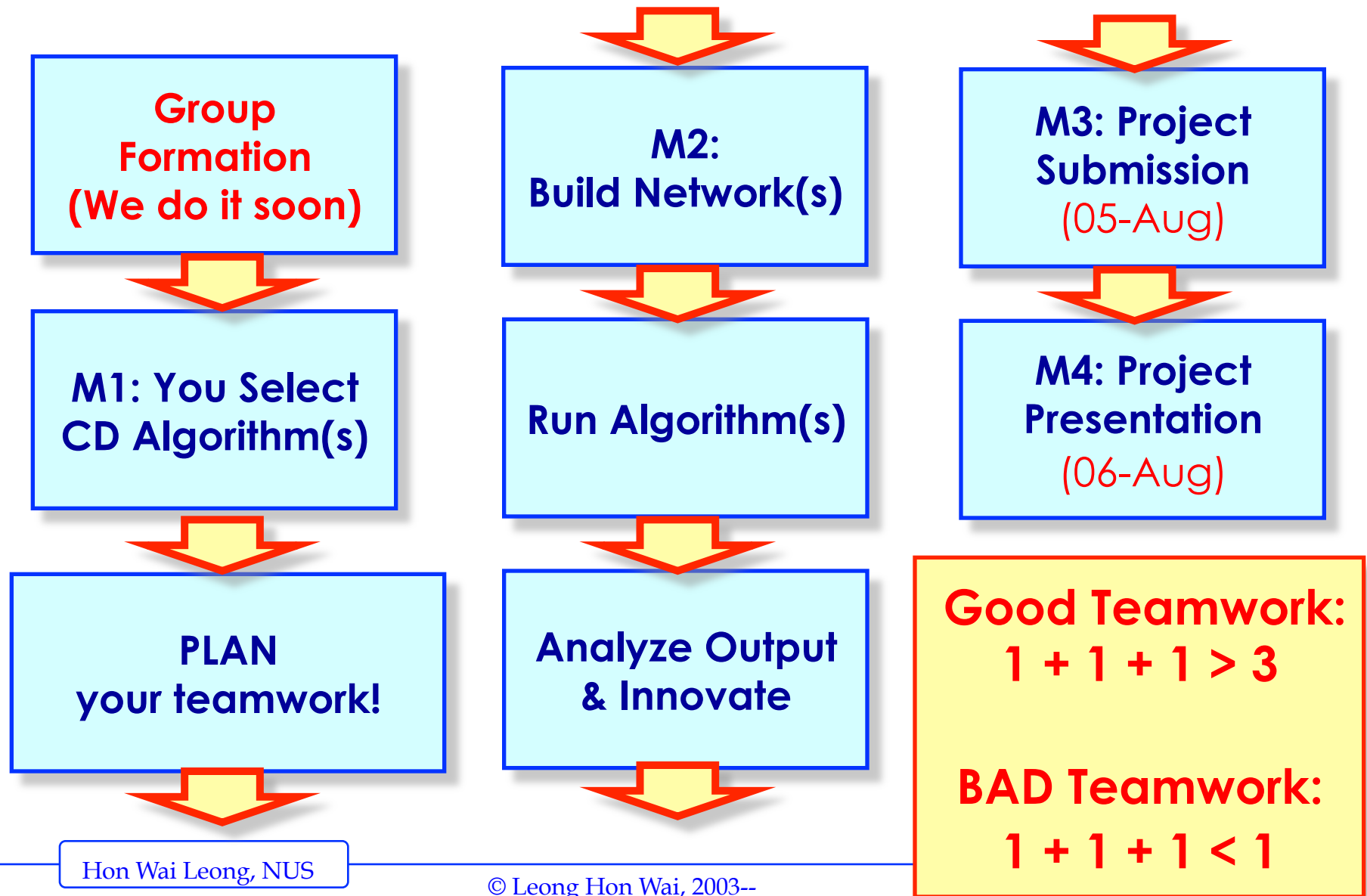
**Assign Roles
Divide Tasks**

**Communicate
Progress**

Help Each Other

**When you FAIL to PLAN,
Then you PLAN to FAIL.**

Project Milestones



Project Groups

□ Project Groups (3 students per group)

- ❖ Soon – check IVLE (Class & Groups)
- ❖ You choose the CD algorithm(s)
- ❖ ≤ 1 person with weak-prog per group

□ To all Project Groups:

- ❖ Make new friends, bond together,
- ❖ PLAN your project

Project Data:

- ☐ Some sample project data is coming soon
- ☐ You should search online for more data
- ☐ Innovate on interesting applications of community detection...

CD Algorithms:

- ❑ Single-Link cluster algorithm
- ❑ Girvan-Newman algorithm
- ❑ MCL (Markov Clustering)
- ❑ CPM (Clique Percolation Method)
- ❑ Spectral Methods

Many more with (source) code online

Visualization of Communities...

❑ Many visualization software around

❖ Go search online for it

❑ You can also use Pals

❖ Written by Yao Yujian

❖ As CS3230R project

◆ *CS3230 = Analysis of Algorithms 4Credit*

◆ *CS3230R = 1Credit, Additional work*

Deliverables (M3, M4)

□ Project Zip File (M3) – by 05-August

- ❖ Project Report (5-8 pages)
- ❖ Reference material, papers, websites,
- ❖ Software, Data, Results,
- ❖ Upload to IVLE folder “Project-Submission”

□ Presentation (M4) – on 06-August

- ❖ 15 minutes presentation
- ❖ 3 minutes Q&A

Thank you.

Q & A



School of Computing