





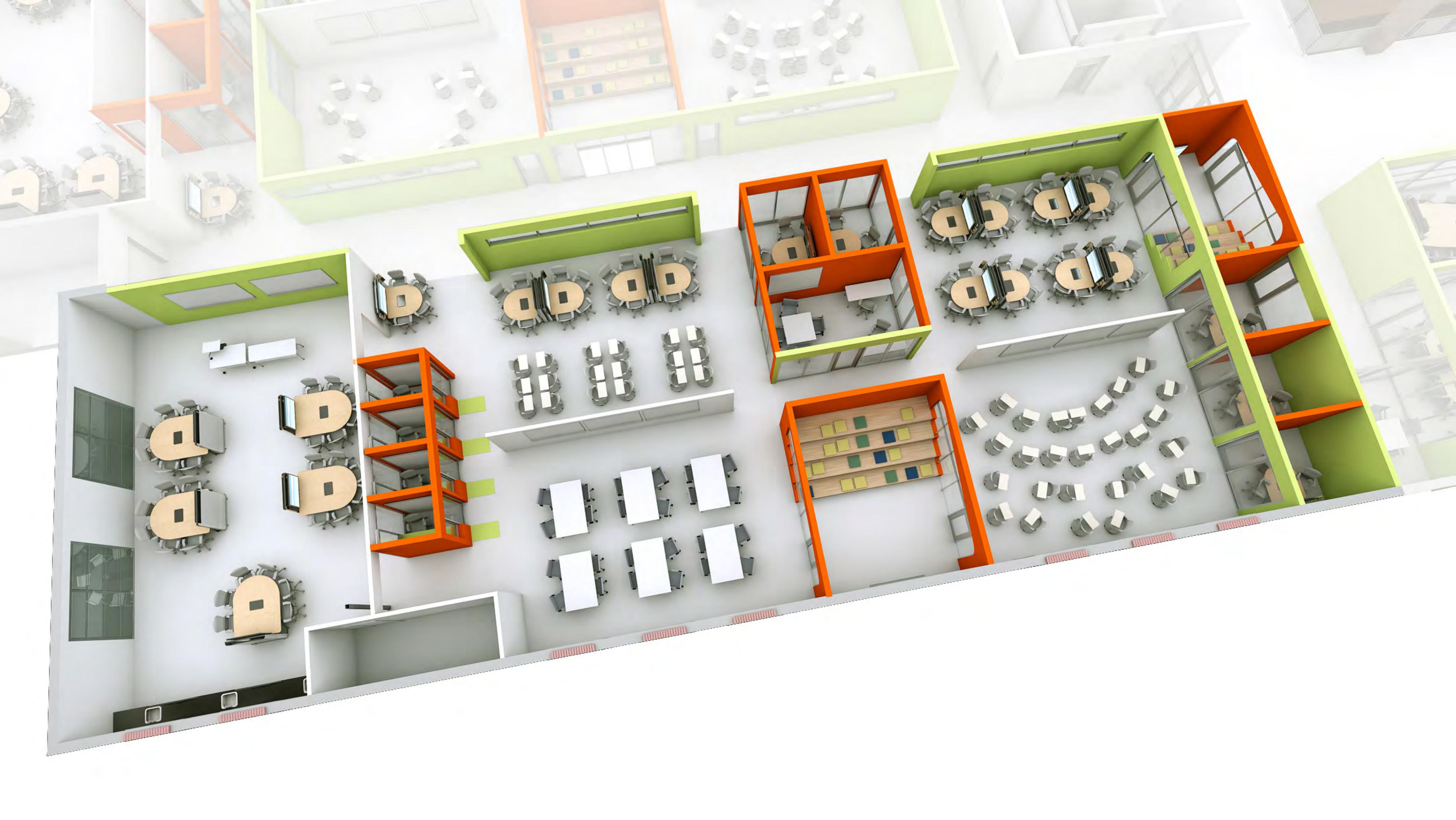
"Before you can make a dream come true, you must first have one." Ronald McNeil













### Work Plan Brainstorming

- Brainstorm as a team but
  - Roles: chair (guides the group), scribe (records ideas), timekeeper (keeps the group on track)
  - Roles for team leader: make sure everyone has a chance to contribute, especially ones of strong ideas
  - Roles for team member: make sure everyone has a chance to contribute, especially ones of strong ideas
- Develop an idea
  - Develop an idea to evaluate
  - Develop an idea to test
  - Develop an idea to test
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• Very important! Need to master it to solve quadratic equations  
 When you have  $ax^2 + bx + c = 0$   
 the solutions are  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Example solve  $x^2 - 9x + 8 = 0$   
 $a=1$   $b=-9$   $c=8$

First write in standard form  $x^2 - 9x + 8 = 0$   
 plug in values into formula

$x = \frac{-(-9) \pm \sqrt{(-9)^2 - 4(1)(8)}}{2(1)}$   
 $x = \frac{9 \pm \sqrt{81 - 32}}{2}$   
 $x = \frac{9 \pm \sqrt{49}}{2}$

Solutions  $\rightarrow$   $x = 8$   $x = 1$



### Design and Capabilities of the Commercial S

- Crew Capabilities:**  
 A crew of up to seven people will be able to visit the station between 100 and 150 days.
- Placement in Optimal Orbital Position to the ISS:**  
 The CS will be placed within 100 km of the International Space Station at all times, every reference required to transition crew and cargo between the two stations.
- Uniform Interface Systems:**  
 The CS will be built using internationally certified standards and interfaces for life support, scientific and experimental payloads, and computer and data monitoring interfaces.

