Milestones:

1. 2010:
   a. Identify and characterize photo-emission properties of materials for photocathode development

   b. Upgrade existing vacuum transfer facility to match the 8"x8" square module assembly

   c. A design, including costing and interfacing with vendors of production sealed glass tubes, for a vacuum transfer/assembly facility for the 8" square module assembly.

   d. Demonstration of an 8"square operational PC

2. 2011:
   a. Design and costing of a photocathode characterization facility;

   b. Design and costing of an 8" glass tile assembly facility.

Focus Areas (questions to be answered):

1. 2010 a.) what materials
   i. What are the photo-cathode materials we want to work on and why? (materials & recipes)
   ii. What are the advantages of these materials and how they will contribute to the proposed detector
   iii. Which information is available or was measured (absorption coefficients, typical QE for given recipe
   b. Upgrade existing vacuum transfer facility????????
      i. Perhaps Igors facility; plans for transport/cooperation between WASHU/ANL??????
   c. Same as 2b: What is timeline and approach at:
      i. SSL
      ii. ANL
      iii. WASHU?
   d. Demonstration of 8" (for SSL/ANL)
      i. What recipe and why
      ii. What infrastructure measurements are necessary and what is the timeline
      iii. Which questions (technological and scientific) have to be /should be addressed and are critical
      iv. What will be the pathways to transfer and seal
2. 2011: only a.)
   i. plan of the chamber system
   ii. what should the system be able to test

iii. what exsitu systems are necessary
iv. timline for installing and milestones within 2011
v. How does it correlate with SSL/WASHU/ANL(tile facility)