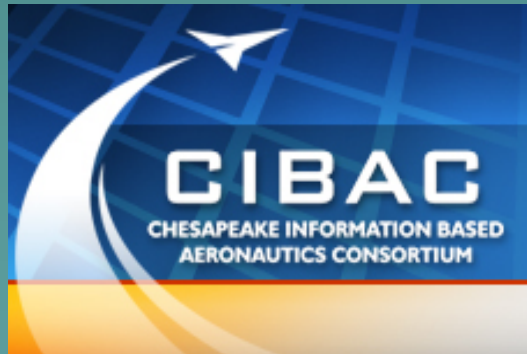


CHESAPEAKE INFORMATION BASED AERONAUTICS CONSORTIUM (CIBAC)

DEVELOPMENT OF A
SCIENTIFIC INFORMATION SYSTEM (SIS) FOR MANAGING MULTIPLE
SCIENTIFIC CENTERS

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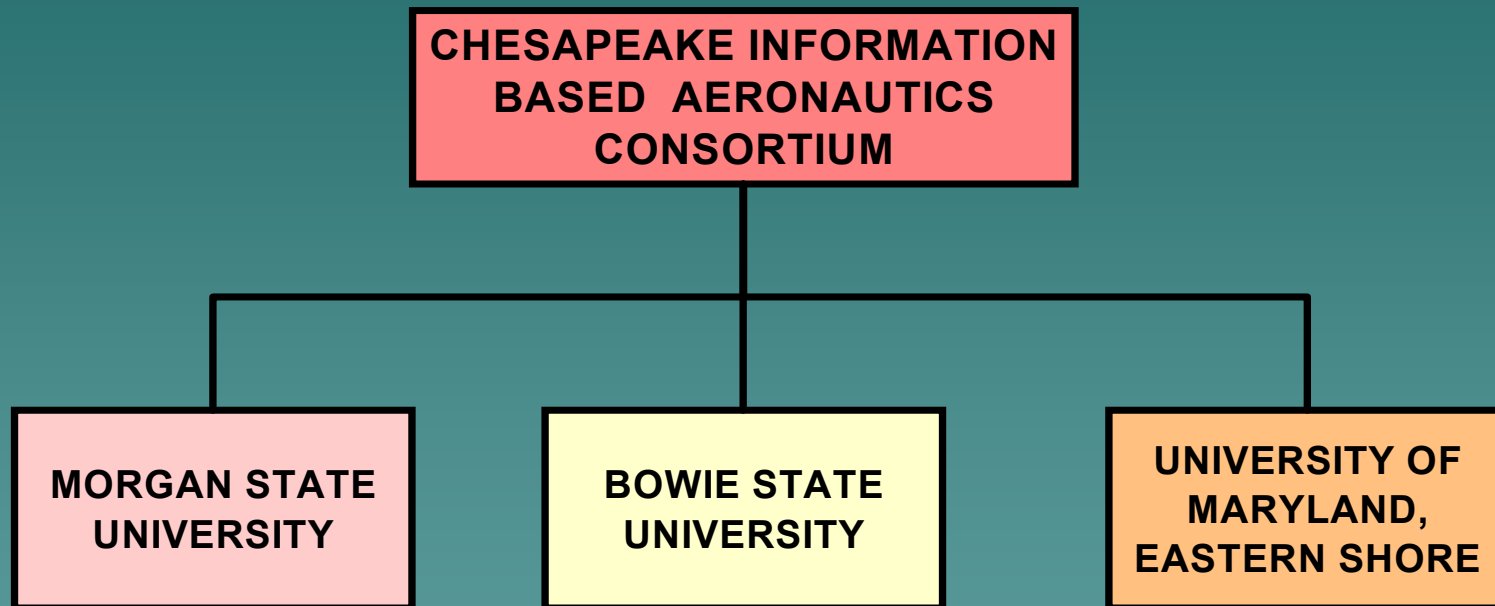
AGENDA

- ◆ **Goals /Objectives for the summer**
- ◆ **Problem Definition**
- ◆ **Requirements/Objectives of Research**
- ◆ **Methodology**
- ◆ **Organizational Structure**
- ◆ **A Model Structure for CIBAC**
- ◆ **Processes That Drive the CIBAC Structure**
- ◆ **Demonstration : Using a Website for Development and Ongoing Management of a SIS**
- ◆ **Summary**
- ◆ **References**

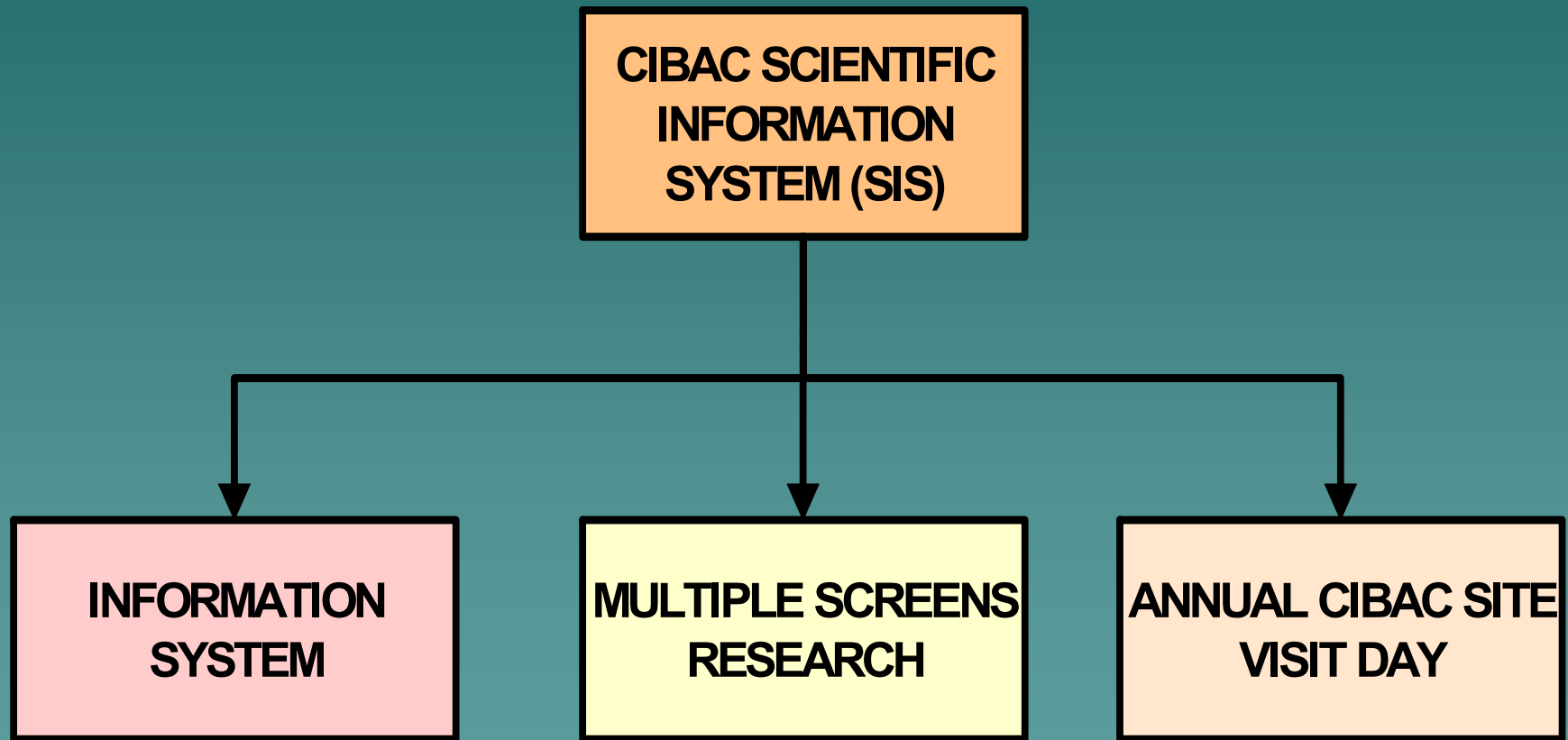
SUMMER GOALS/OBJECTIVES

- ◆ Understand the Development of the CIBAC SIS (MSU, BSU, UMES) website.
- ◆ Understand the OOD and methodology, i.e., use case models
- ◆ Understand the design/development of websites, i.e., tools used (Dream weaver Interface)
- ◆ Integrate subsequent projects into the SIS website

RESEARCH PARTNERS (UNIVERSITIES)



THE RESEARCH PROJECT AT MSU



MANAGING LARGE SCIENTIFIC CENTERS

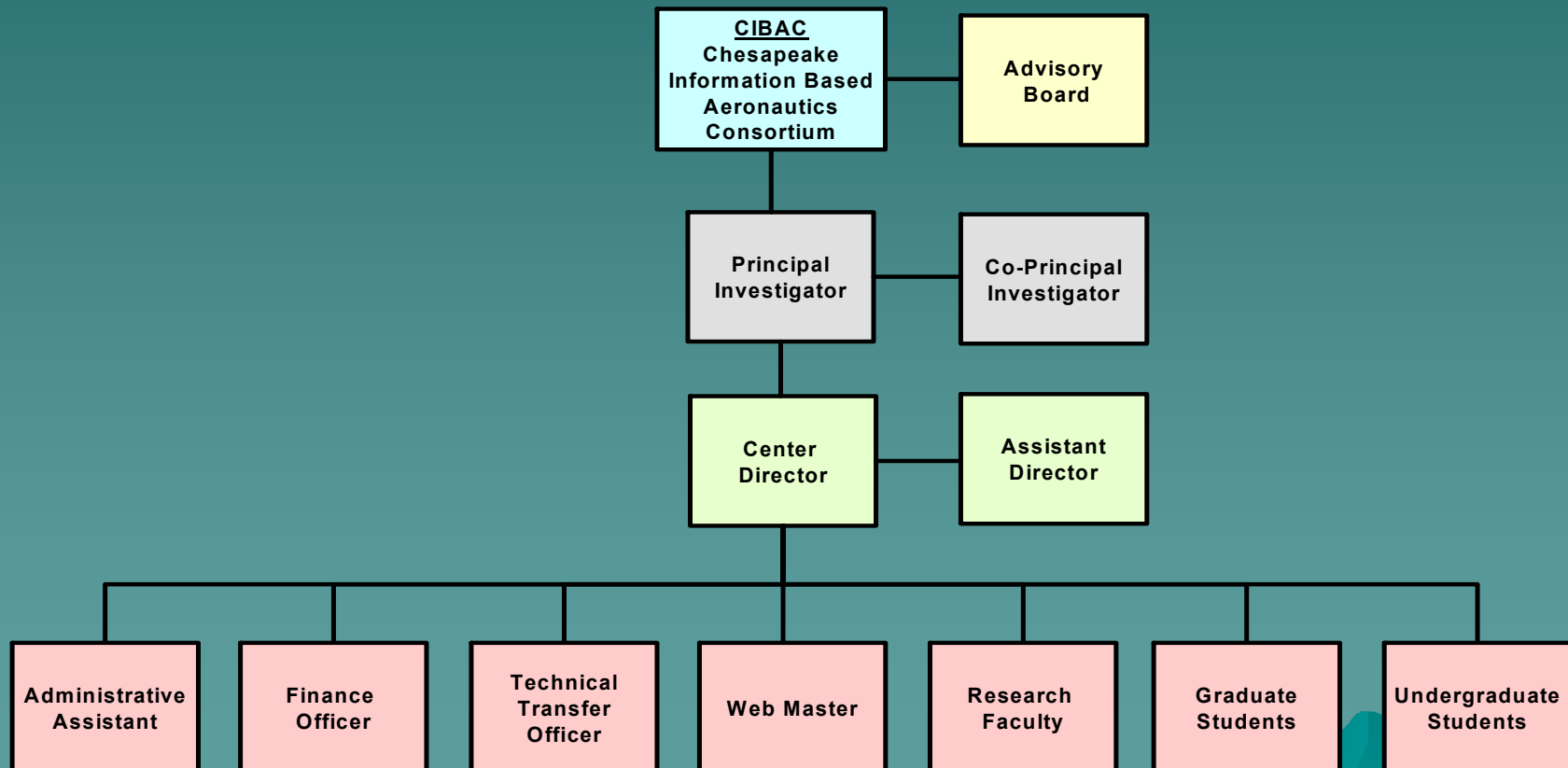
Problem:

Scientific centers with multiple locations usually have a large number of administrative personnel as well as research facilities to have the scientific center run smoothly. This requires efficient interaction between administrators in addition to collaboration amongst researchers.

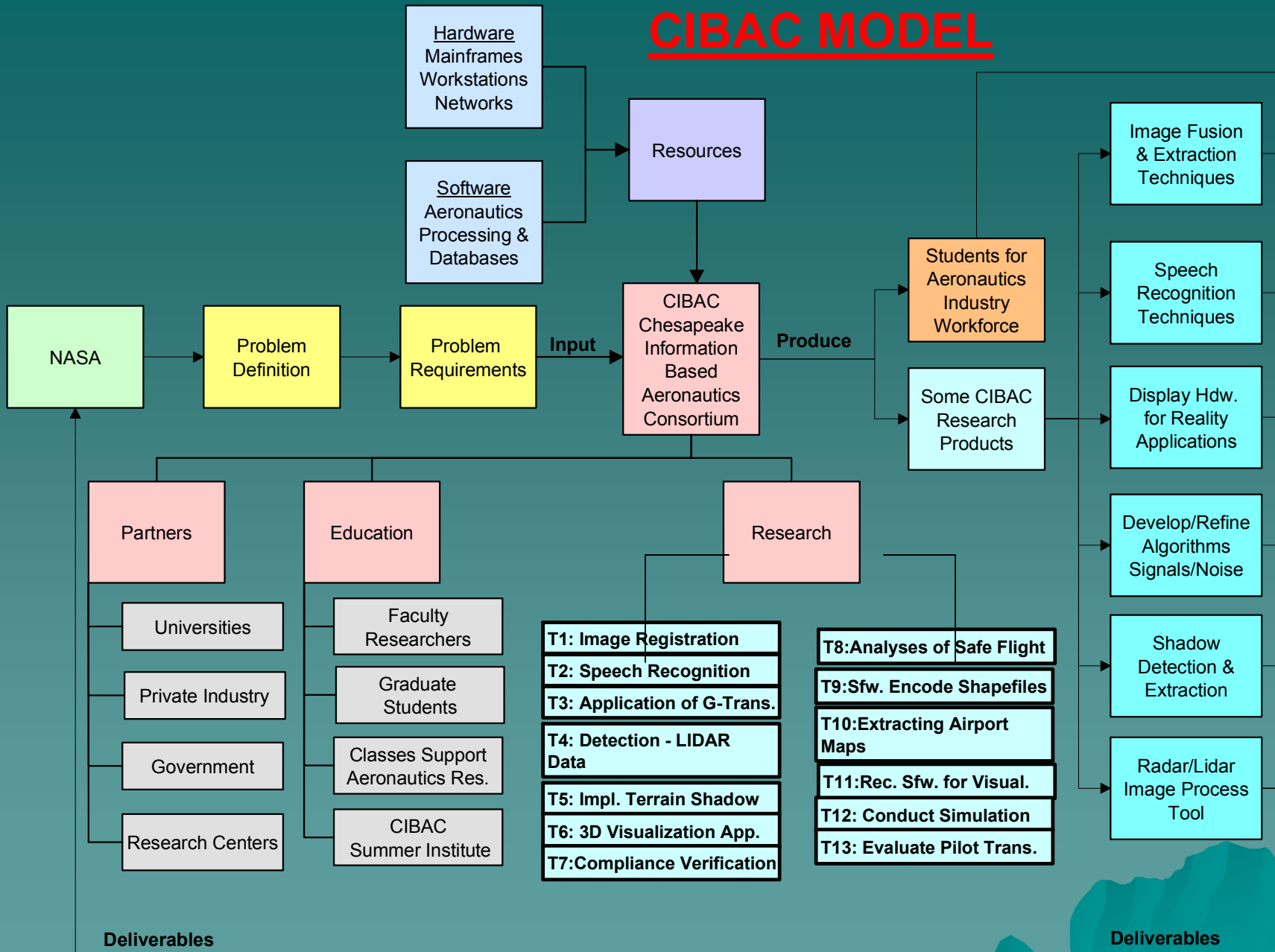
Proposed Research:

This research will address innovative methodologies and techniques available to manage, control and maintain large scientific projects.

ORGANIZATIONAL STRUCTURE



CIBAC MODEL



Deliverables

Deliverables

SUMMARY

- ◆ In building the website and integrating the component projects, all three projects were found to be compatible.
- ◆ Using the SIS website, information generated by Scientific centers can be easily managed and maintained.

REFERENCES

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<http://movielibrary.lynda.com/html/modPage.asp?ID=172> (Accessed 07/05/08)
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<http://www.webreference.com/html/tutorials/>
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- ◆ [3] Tsang, Curtis, HK, et al, “Object-Oriented Technology, from Diagram to Code with Visual Paradigm for UML,” McGraw-Hill, New York, NY, 2005.