

Outline



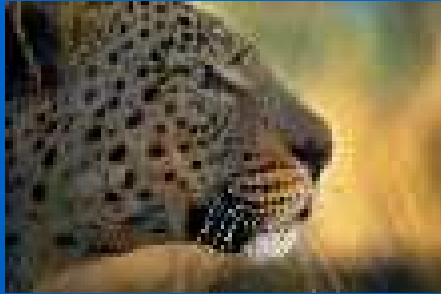
- n Balam Simulation Group
- n Enterprises' Situation in Mexico
- n Relationship: Academy - Industry

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Balam



Balam is a Mayan word which means jaguar. Nevertheless, Balam is not a common animal, the Mayans associated it with the meaning of power, magic and ilusion. The Mayan culture left a great legacy to mankind: their science, their vision of the world, and their link with nature. In this same way, we consider that within this group, the power to create is just limited by imagination, and the capacity to analyze must be wide-open in order to always be able to observe from all the possible angles, along with a constant search of the best relationship between the human being and his surroundings.



Raison d'être



Balam is an academic group formed by professors in different areas, and students interested on research and on the continuous search for alternative solutions to the present working models. It is a non-profit organization whose mission is the spreading of simulation science, its applications, and the generation of ideas that help to the development of this important area in both the academy and the industry.



Foundation & Mission



Balam was founded by the initiative of professor Stanislaw Raczynski and students to create an organization where the students could have the motivation and opportunity to work on research projects, develop new ideas, and get a good approach to different academic and industrial environments all over the world.

Besides of developing different projects, Balam has the mission to share knowledge and experiences that could help to enrich the concepts and techniques of simulation in many events as workjobs, conferences, working collaborations and exchange.

Support



Balam counts on the support of the Universidad Panamericana (Universidad de Navarra) and the CEPADIT (Panamerican Center of Technological Research)



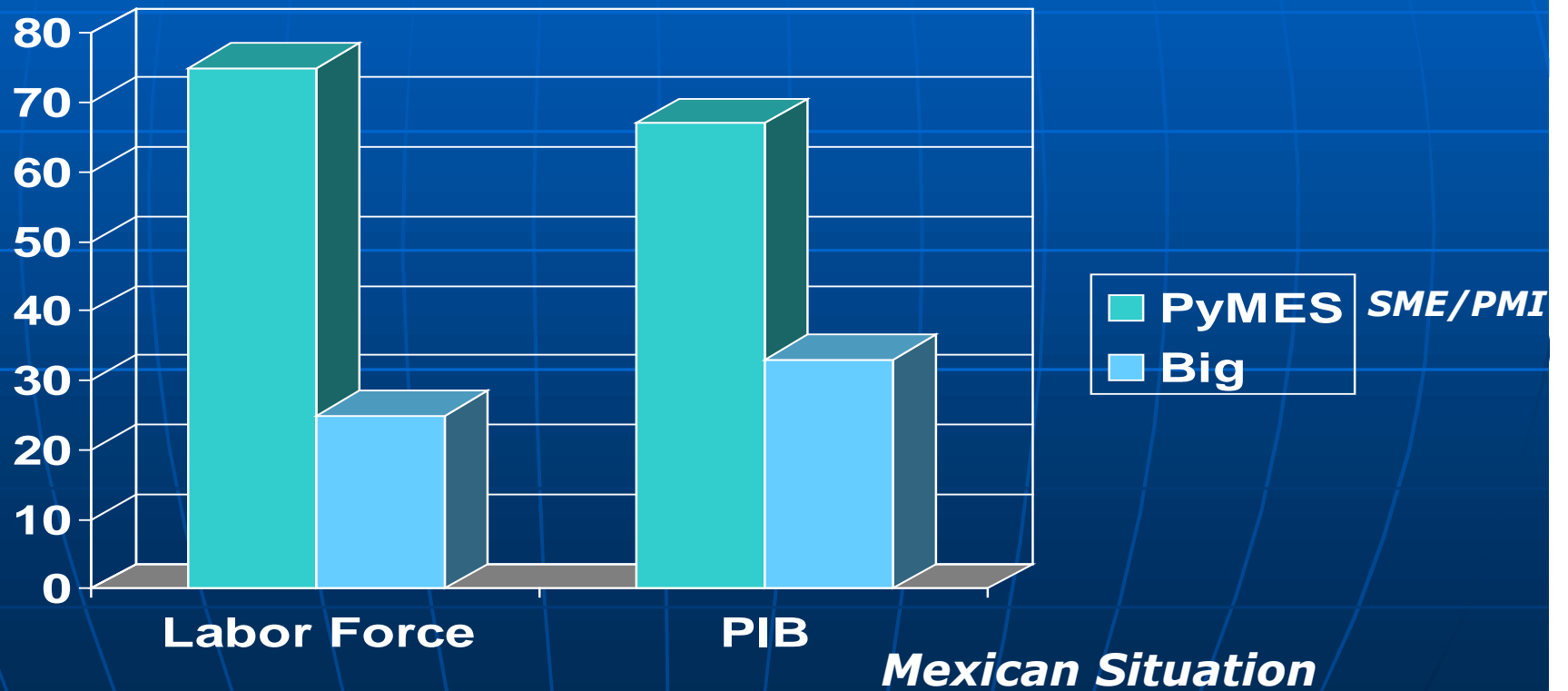
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Economical Situation



n Labor Force & PIB GDP

Mexican Situation

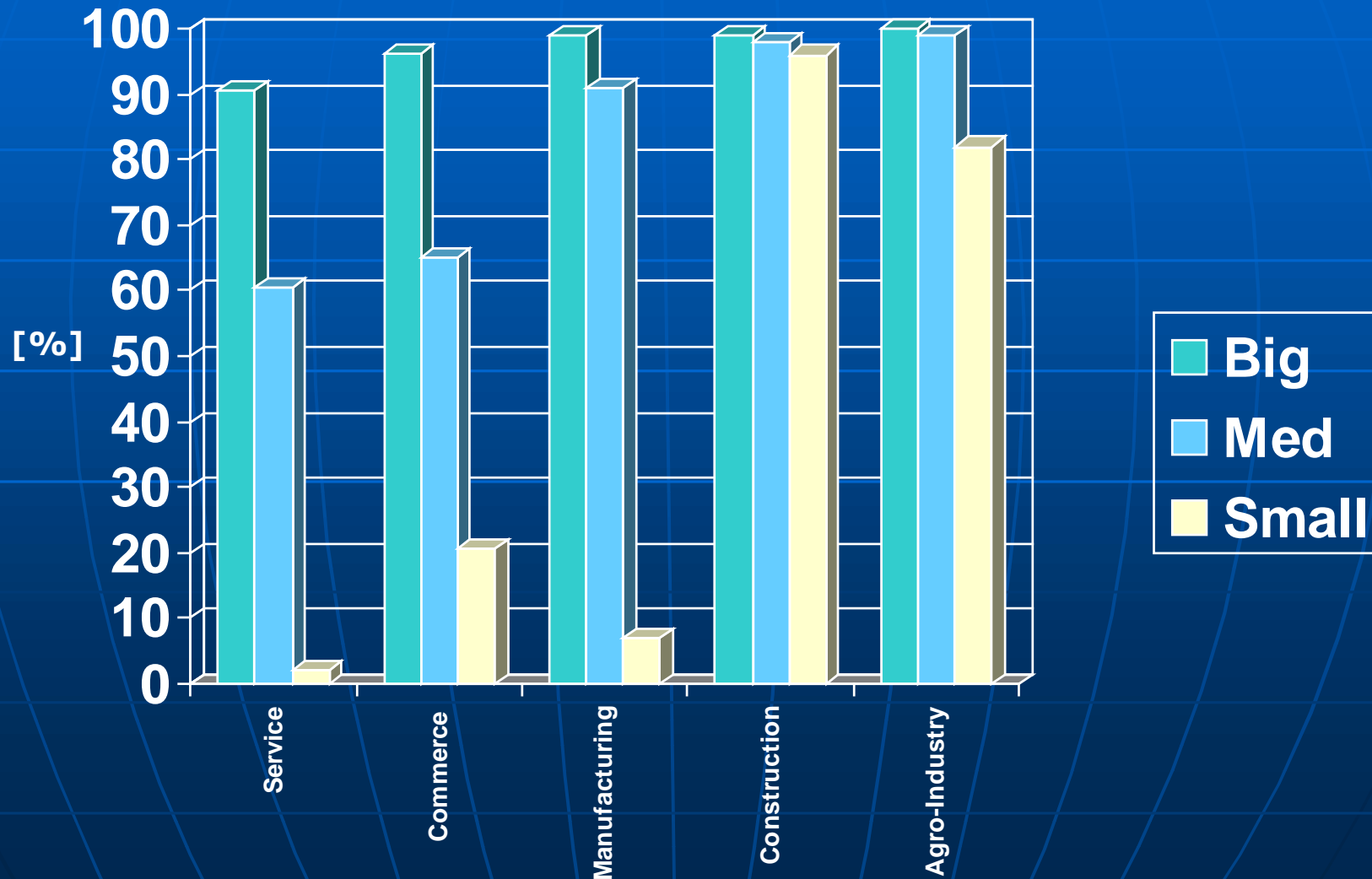


Technological Status



- n SCM: Supply Chain Management
- n E-Commerce
- n EDI: Electronic Digital Information
- n Optimizing Systems

Technological Status



Out of the World Market Competitiveness

Vices



LOW DEMAND
NO NEED TO CHANGE
PROCEDURES

POOR TECHNOLOGY
NO MAJOR IMPROVEMETS
IN S&M

BIG ENTERPRISES
DO NOT INVEST
DUE TO THE WEAK
INETERNAL GROWING

NO IMPROVEMENTS
INTERNAL ECONOMY
BLOCKED OUT

Research Interests



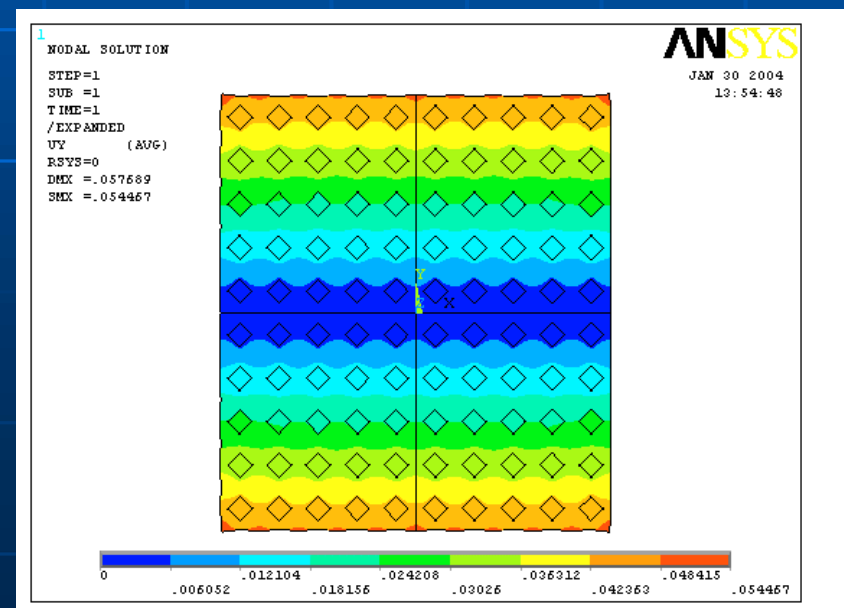
- n Manufacturing Systems
- n Logistics & Supply Chain
- n Materials
- n Robotics



Some Projects



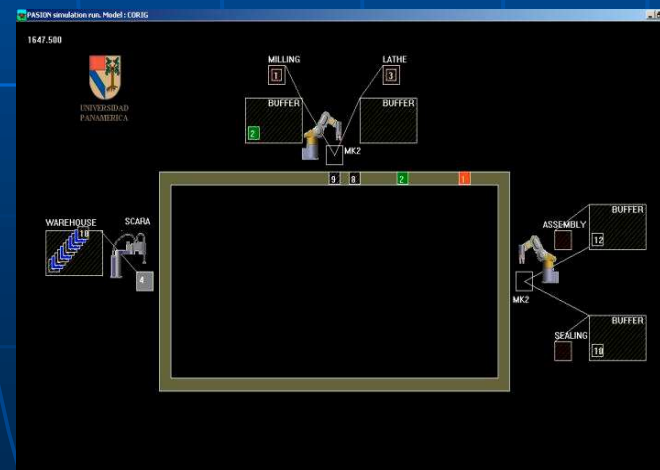
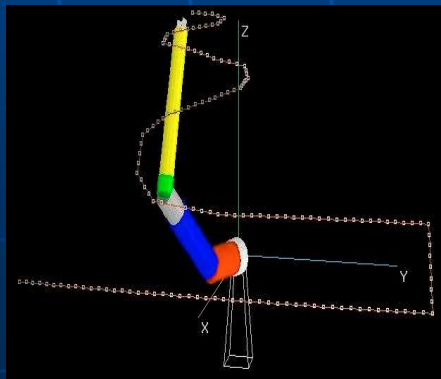
- n Analysis of materials' resistance, compound elements and new alloys.
- n Major Contact: CEPADIT
- n Aerospace new alloys: Netherlands DELFT University



Some Projects



- n Manufacturing Systems, Robotics and Logistics
- n Major Contact: TREMEC, INNOVA, Water National Commission, BOSH, MultiBody Dynamics (Parallel Manipulators)
- n Advanced Technology Information: Purdue USA University,



Web Pages



n <http://www.up.mx/rama.php?fdoc=2046&fcategoria=17>

n www.raczynski.com

n <http://www.up.mx/rama.php?fdoc=3825&fcategoria=17>