

# Benchmarking & IT Performance

A partnership with the International Software  
Benchmarking Standards Group



ISMA - 09/12/2006

Dan Bradley – Tony Rollo

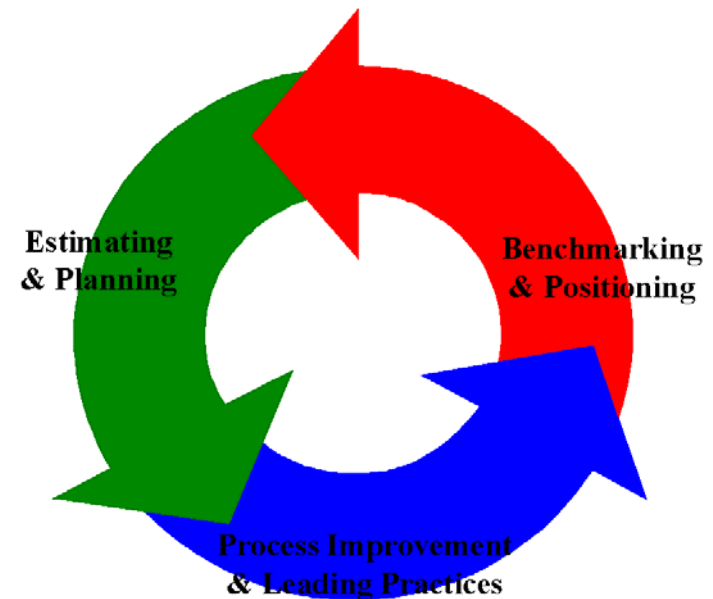
# IT Performance Committee



- Provide services, based on a collection of software metrics data, that assist IFPUG members to understand, plan, manage, and improve software engineering processes and practices.
- Spread the use of software benchmarking within the IT industry.
- Enable the use of Function Points in estimation.
- Support IFPUG's commitment to ISBSG.

# ITPC Members

- Loredana Frallicciardi -Director
- Dan Bradley – Chair
- Wendy Bloomfield
- Christine Green
- David Herron
- George Mitwasi



# What Is Benchmarking?

“A standard by which others may be measured” Webster’s Dictionary

“A continuous, systematic process for an organization to compare itself with those companies and organizations that represent excellence.” IFPUG



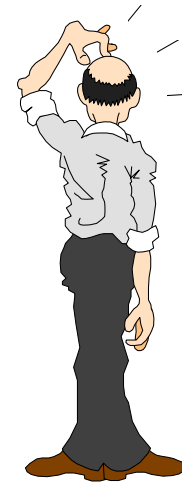
# Why Benchmarking?



- You must know where you are to get where you are going.
- Common Language
- Understanding your process
- Process Improvement
- Searching for excellence
- Setting expectations

# What to Benchmark

- Project Size
- Delivery Rate
  - Hours/FP
- Cycle Time
  - Time to deliverables
- Quality
  - Defects/FP
- Project Cost?



# Benchmarking Prerequisites



- Metrics Program
  - Projects
  - Function Points
  - Time Reporting
- Comparison Data
  - Internal
  - External

# How Can IFPUG Help?



- IFPUG - IT Performance Committee
  - Attributes Study
  - Estimation Class
  - Liaison to the International Benchmarking Standards Group
- IFPUG's Membership in ISBSG



# ISBSG - Tony Rollo



## The International Software Benchmarking Standards Group

*" Any project team anywhere in the world may,  
for reasonable cost, benchmark themselves  
against world's best"*

# ISBSG Mission



“To help improve the management of IT resources by both business and government *through* the provision and exploitation of public repositories of software engineering knowledge that are standardised, verified, recent and representative of current technologies.”

# To deliver the mission



The ISBSG creates, builds, grows maintains and exploits two databases (Repositories) of data on software projects and maintenance & support applications.

# Principles of ISBSG



- Principles of Evolution
  - independence
  - data integrity
  - anonymity
  - practitioner driven
  - practitioner accessible
  - not for profit

# International Membership



## Current membership:

- Australia, China
- Finland, Germany, India
- Italy, Japan, South Korea
- Netherlands, Spain, Switzerland,
- United Kingdom, USA(**IFPUG**)

# ISBSG Repositories



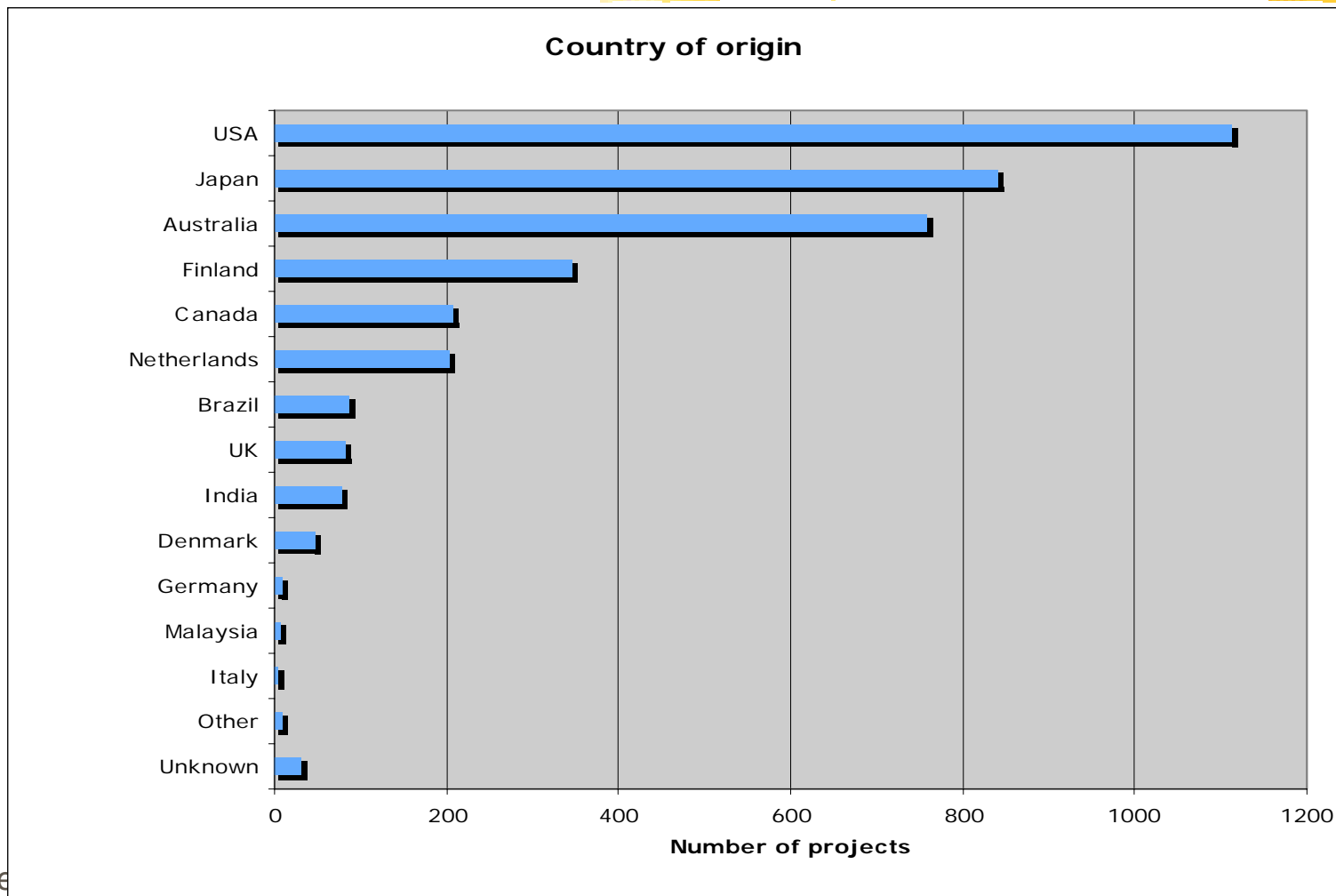
*A new body-of-knowledge with the potential to **transform** the processes, relationships and structure of the Software Engineering Industry*

# The ISBSG Development Repository - Positioning



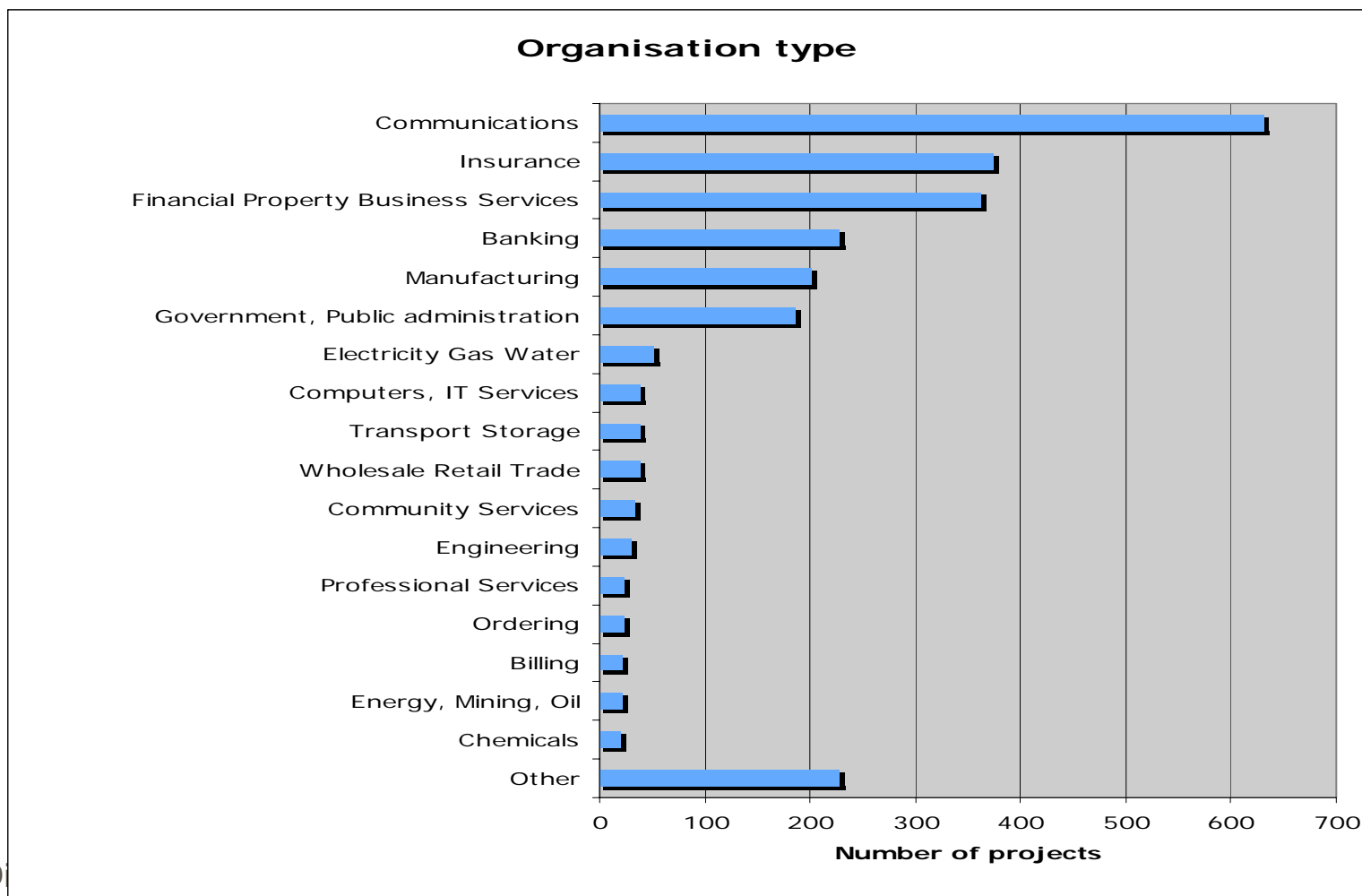
- Probably represents top 25% of industry
- Now has more than 4,000 projects
- 50% since 2001
- Data from a wide range of countries, organisations, application types and development types

# Development Repository

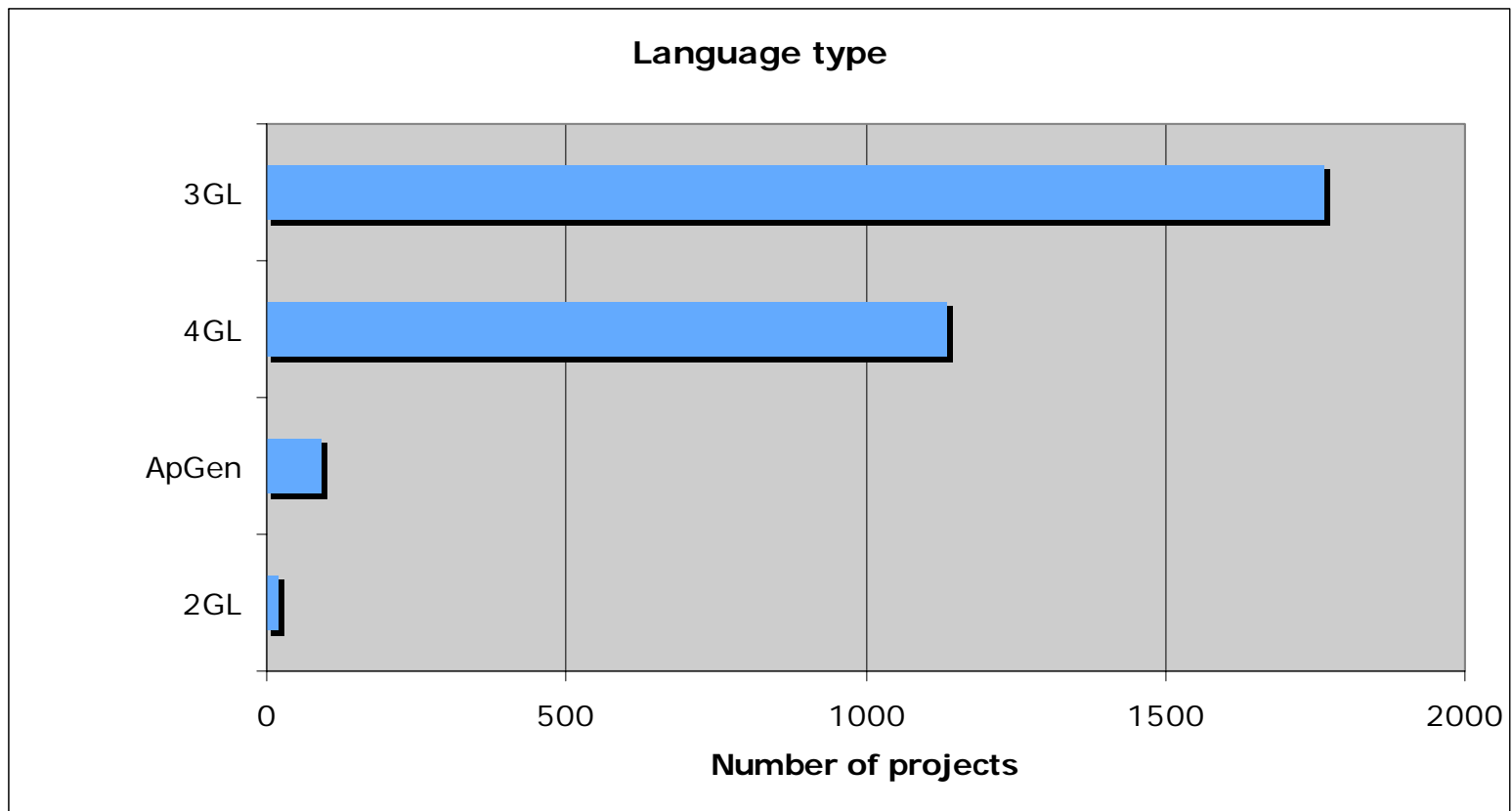




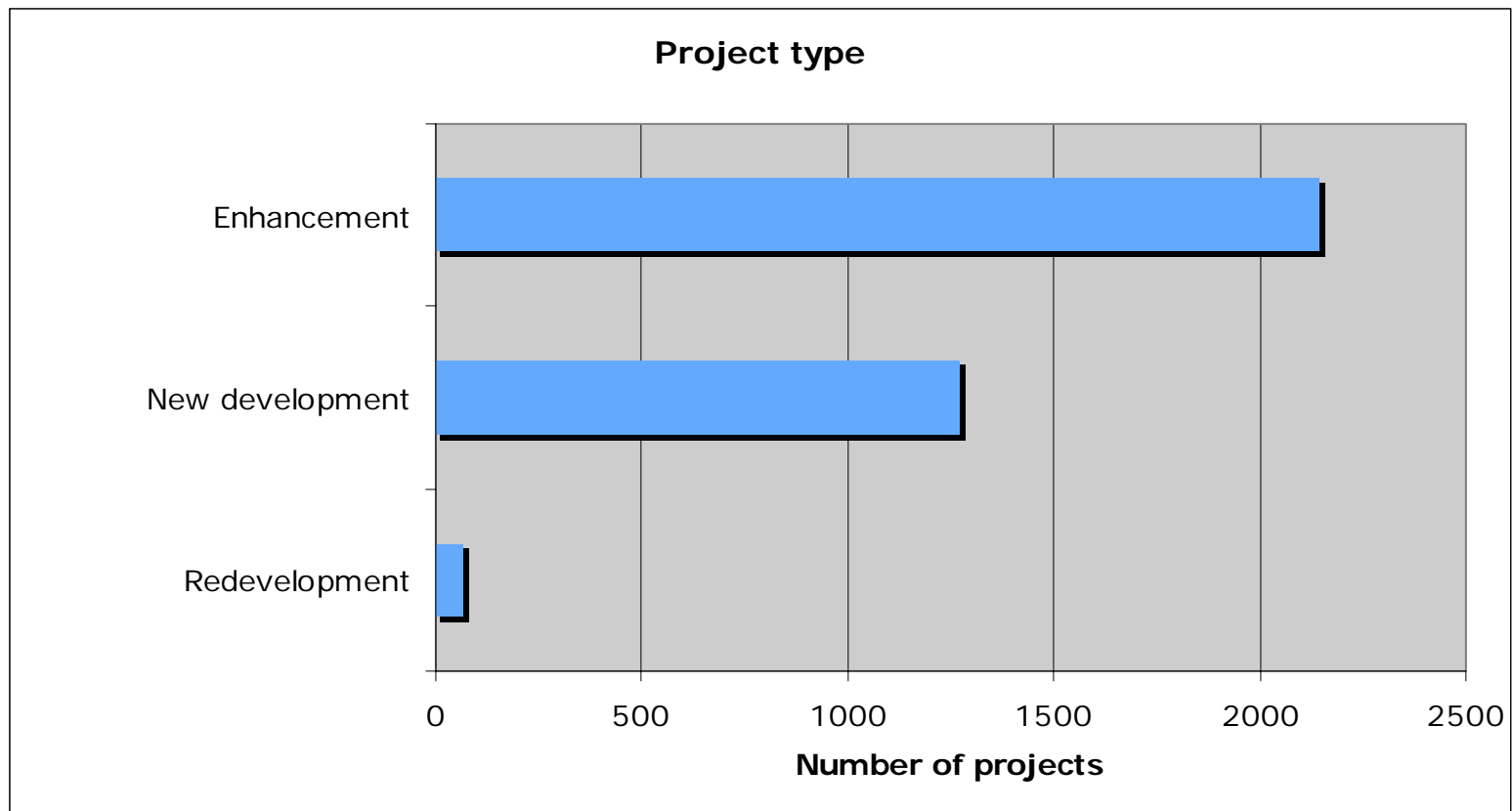
# Development Repository



# Development Repository



# Development Repository



# ISBSG Products & Services (Present)



- Corporate & individual subscriptions
- Special Analysis Reports
- Project Benchmarking Service
- Organisational Benchmarking Service
- The Benchmark Publications
- The Data CD
- Practical Project Estimation (book)
- The Software Metrics Compendium (book)
- Estimation Course (material for members)
- Data available for research
- Benchmark Draft Standard (Beta)

## By using the Repository, businesses and developers now have capabilities to:



- Estimate size, effort, cost, duration
- Verify completeness of requirements
- Be aware of project risk – check reality of estimates
- Manage the progress of projects
- Benchmark their performance
- Acquire custom-built software on a price per functional unit basis

# Summary - ISBSG Strengths



- Not profit motivated
- Provides Project Benchmarking
- Allows direct access to the data
- Allows networking
- Broad representation of IT
  - technologies, organisation types, geography
- International based standard

# IFPUG/ISBSG



**I**nternational  
**S**oftware  
**B**enchmarking  
**S**tandards  
**G**roup

# The IFPUG/ISBSG Relationship



- IFPUG
  - Member/supporter
  - Major project contributor
  - Ideas
- ISBSG
  - Maintain repository
  - Assure anonymity of contents
  - Provide research, products, services



# IFPUG's Role in ISBSG



- As the Leading Metrics Organization:
  - Protect your Metrics Investment
    - ✓ 82% of submitted projects utilize IFPUG Function Points
  - Enhance Membership Value
- As a “Charter” Member of ISBSG:
  - Provide Ideas and Support
  - Encourage Project Submissions
  - Market ISBSG Products

# ISBSG Repository FSM Distribution



- IFPUG 82%
- FiSMA 9%
- DASMA 4%
- COSMIC 3%
- MK II 1%
- Other (LOC etc) 2%

# Your Role as an IFPUG Member



- Leverage your IFPUG membership
  - Understand Committee Activities
  - Member Discounts
- Utilize the ISBSG Repository and Products
- Submit projects to the repository
- Leverage your Metrics Program

# The Process



- To Obtain ISBSG Products:
  - Preview Products at the Conference or on the WEB
  - Talk to IT Performance Committee
  - Talk to ISBSG (Tony, others in attendance?)
  - Order Products through the IFPUG Office
  - Get IFPUG member Discount

# The Process



- Submit Projects:
  - Use the ISBSG collection form available on the WEB.
  - ISBSG will convert project data already in electronic form and load it into the Repository.
  - Make sure that you indicate that you are an IFPUG Member

# Benefits of submitting projects




- Free Project Benchmark Report
- Free ISBSG publications for 5+ projects
- Free copy of the ISBSG Repository CD & free Benchmark report for 50+ projects
- Ability to benchmark your projects against others in the Repository

# Benefits Summary



- Benchmarking Leverages your Metrics Program by assisting in:
  - Defining Performance
  - Assessing Performance
  - Choosing Directions
  - Estimating
  
- The ISBSG Relationship provides discounted access to THE International Repository and ISBSG products

# Here's Why!



“The bottom line is this: You can't improve if you don't know how you're doing. And if you don't know where you're starting from, you can't map a route to your destination.”

Dr. Howard Rubin



# Thank You!



## Questions & Comments