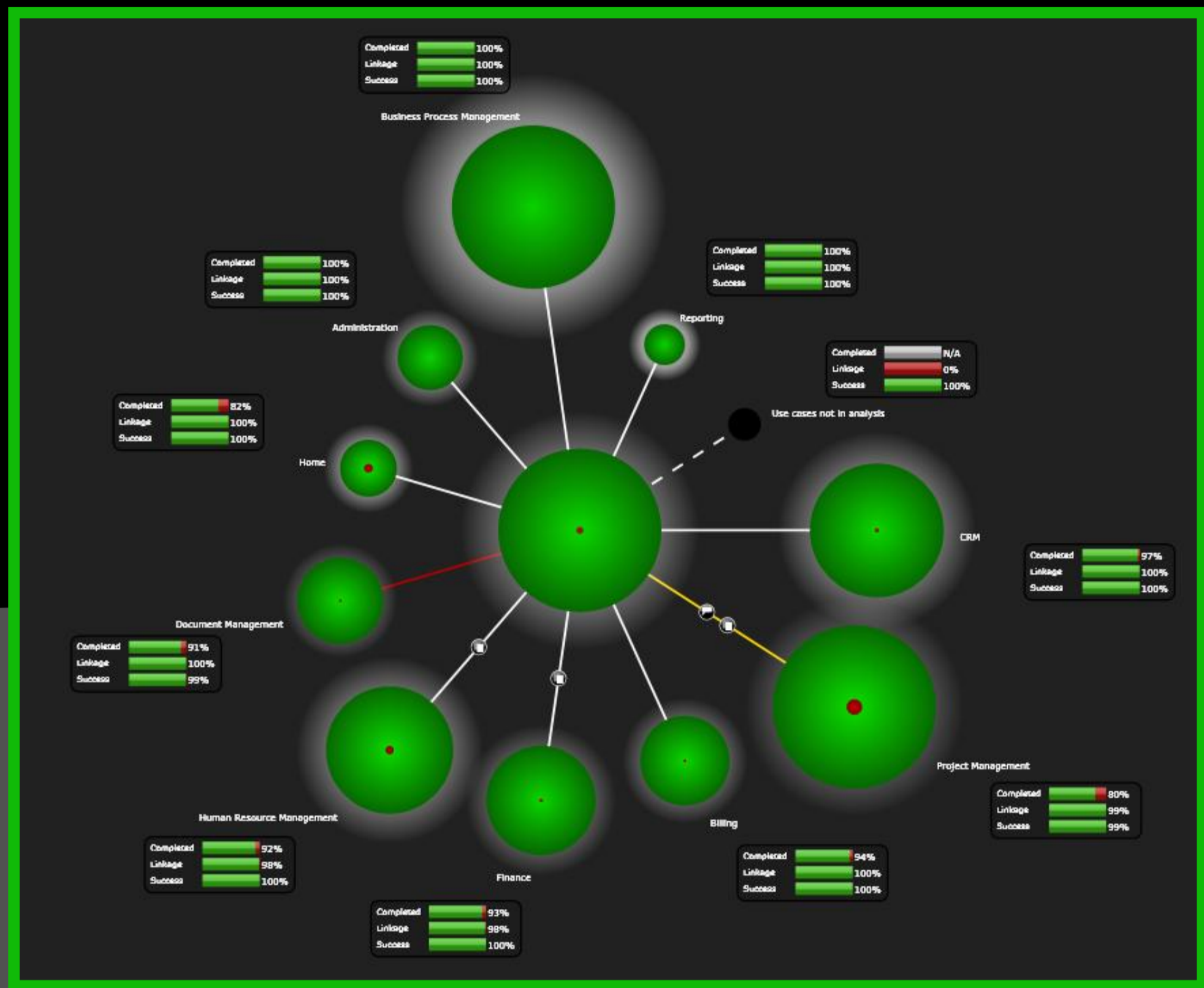# Substring Hole Analysis

Shmuel Ur, IBM Haifa Research Lab

1

Coverage of a large system

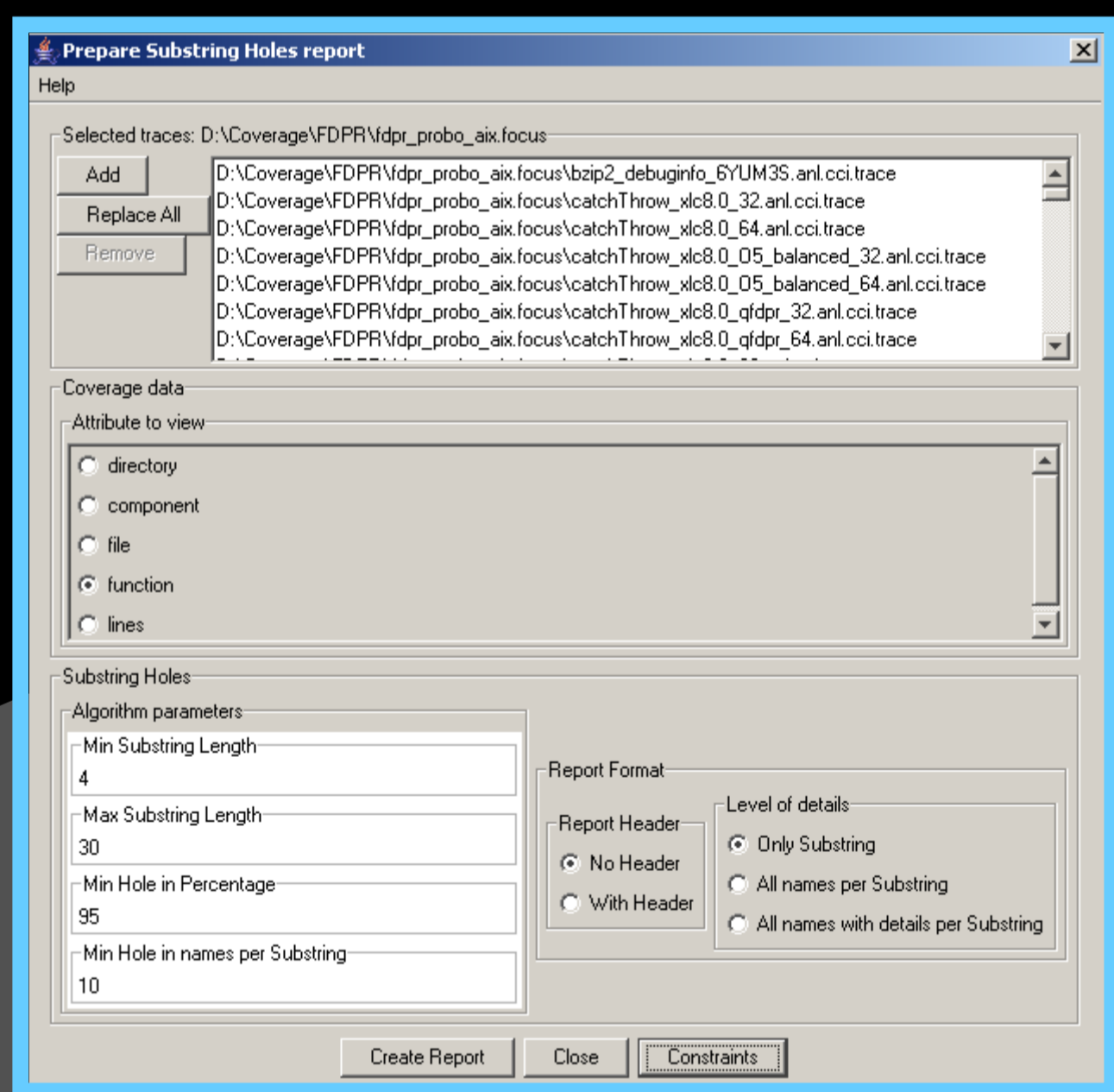http://davybrion.com/blog/wp-content/uploads/2008/11/genesis_project_overview.png

2

What is a semantic hole?

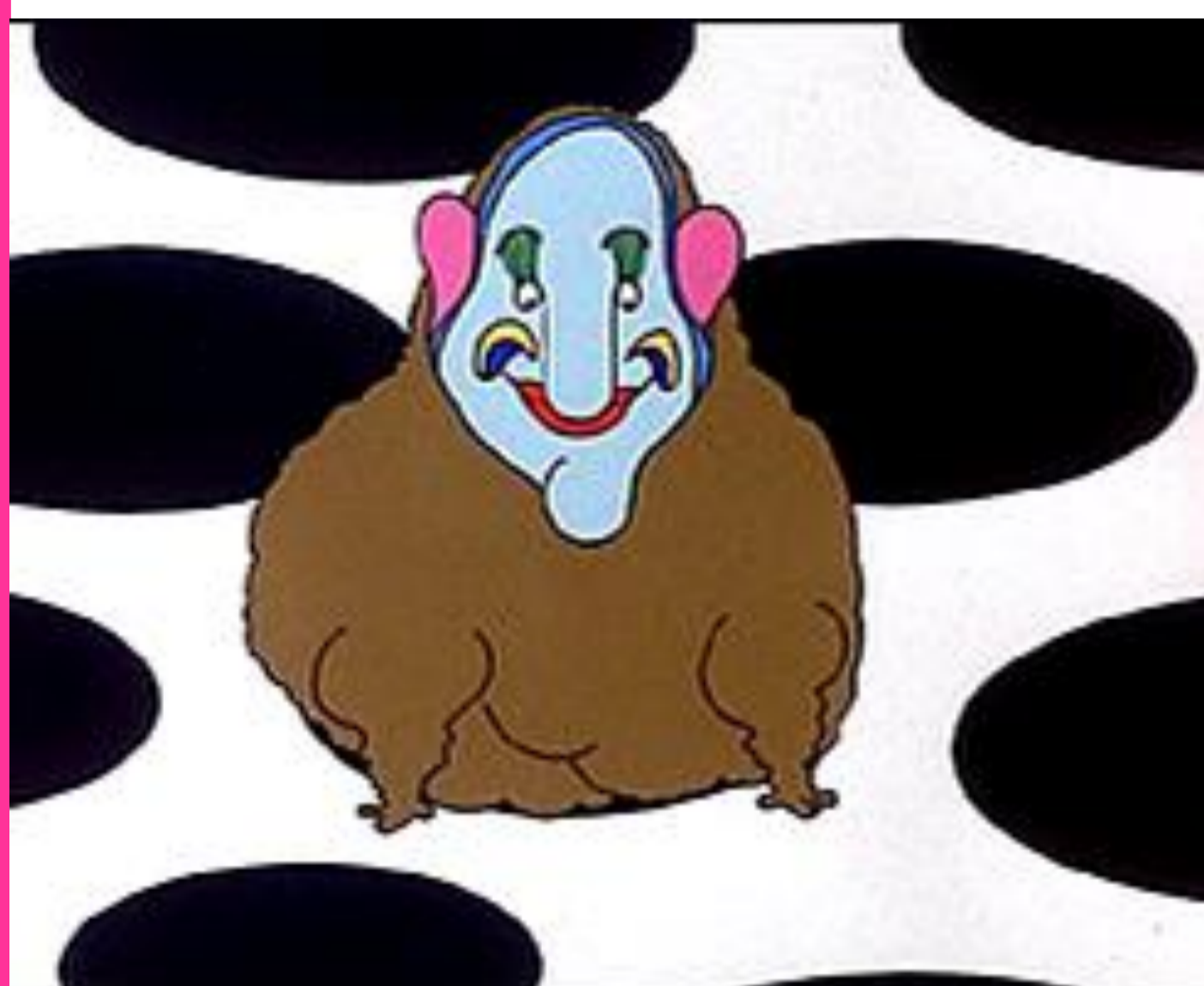A hole is a substring that exists in many functions/file names for which there is poor coverage

3

Focus subset API

He's as blind as he can be,
Just sees what he wants to see,
Nowhere Man can you
see me at all?

Nowhere Man, Yellow Submarine. 1968

4

Focus results

5

Action item for a hole

Covered in different testcase - check!

Config doesn't allow execution - add filter

Remove dead code

Enhance test bucket

6

Workflow

Coverage data

Component definition

Emails to component owners

Sub hole analysis

Action item: Please resolve the following holes:

• Create new tests

• Remove code

Contact:
Shmuel Ur
ur@il.ibm.com