CURRICULUM VITAE Bazil van Loggerenberg

EDUCATIONAL ACTIVITY In South Africa Bazil has regularly taught his published work on the analytics and mathematics of productivity control systems in undergraduate- and post-graduate courses in engineering and commerce faculties at multiple universities.

CONSULTING ACTIVITY In South Africa Bazil has applied his models in mining, manufacturing and in a shared service centre for provincial government. In the United States his consulting engagements included work for the National Aeronautical Space Administration on assessing the productivity effects of satellite gravimetry on oil exploration industry, being productivity background witness for the defense in anti-trust litigation, and directing application of his models to pulp and paper as well as petrochemical industries.

BACKGROUND Loggic LLC

Loggic LLC is the vehicle for commercializing the work developed initially by Bazil van Loggerenberg and to be taken forward by his younger generation.

Loggic LLC employs discrete mathematics to build deterministic and stochastic models for business safety ratings. These solutions have a wide spectrum of applications including:
- synoptic business safety ratings for financial services using disclosed financials of publicly traded entities. They also use fundamentals to enhance security price valuation.
- granular business safety ratings for business and government using undisclosed management accounting information derived from enterprise resource planning or other cost tracking system deployed. Examples of business safety ratings for government include public health care delivery. For business, business safety ratings would include mining, manufacturing, procurement, supply chain management and private health care delivery.

The discrete nature of all business financial and operating data obliges us to use discrete mathematics, as none of the functions we employ are continuously differentiable over ranges relevant to our work.

Our deterministic models measure effect. They comprise difference calculus and cover the full spectrum of difference equations ranging from ordinary differences of degree one and order one to partial differences of higher degree and higher order.

Our stochastic models seek to measure cause. They comprise extensions to regression analysis in which families of candidate independent variables are tested to estimate the contributions of individual variables to effects measured in the deterministic models.

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