

Mapping reality more completely

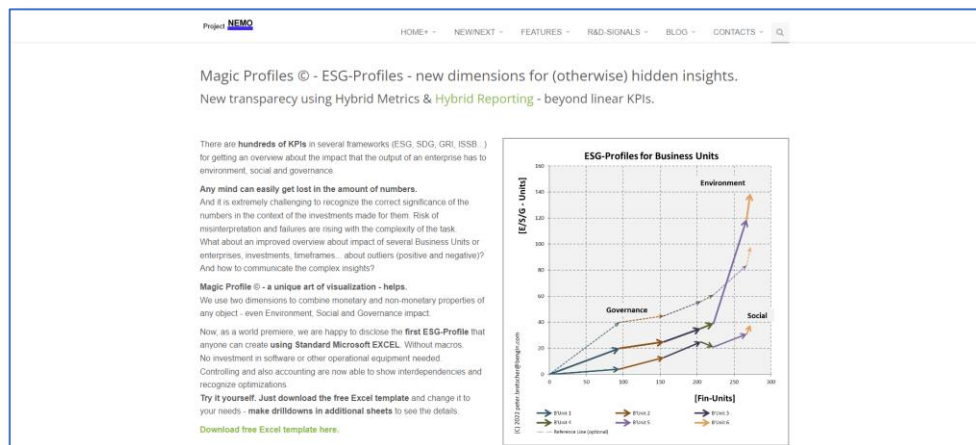
If, in addition to the financial indicators, you also consider other measurable (CO2, sick days, ...) and non-measurable (trust, risk assessment, ...) If you want to include factors as characteristics of material and immaterial resources and potentials, then it becomes more complicated to (A) select the 'right' and important KPIs, (B) weight them appropriately, (C) recognize and present the interrelationships so that the findings and decisions can be communicated in a comprehensible and sustainable way.

In Engineering, whenever it is a matter of demonstrating several properties of an object simultaneously – and calculating with them – the 'vector representation' is used.

It turns out that this instrument (the 'vector') can also be used to visualize interrelationships in the economy in a new way – and thus actual **white spots in the classic mapping of entrepreneurial values can finally be 'mapped'**.

Such new 'value maps' significantly increase transparency and logic in decision-making. This creates new freedoms for sustainable value creation.

The applications are manyfold, for example in ESG mapping -> magic-profile.com



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What good is it for stakeholders if the auditor uses a multidimensional mapping with vectors for reporting?

If the auditor uses a multidimensional mapping of monetary and non-monetary values with vectors for reporting, this can benefit the shareholder, board of directors, management, employees, customers and the public in various ways. Here are some examples:

1. **A more holistic view of company performance:** A multidimensional mapping of monetary and non-monetary values with vectors can help to take a more holistic view of the company's performance. By considering both monetary and non-monetary values, all stakeholders can get a more complete picture of the company's performance.
2. **Identification of opportunities and risks:** A multidimensional mapping of monetary and non-monetary values with vectors can also help to identify opportunities and risks in the company. By considering both monetary and non-monetary values, all stakeholders can better understand what factors influence the business and what actions should be taken to minimize risks and take advantage of opportunities.
3. **Better decision-making:** Multidimensional mapping of monetary and non-monetary values with vectors can also help improve decision-making in the company. By considering both monetary and non-monetary values, all stakeholders can make better decisions based on a broader view of business performance.
4. **Stronger employee and customer loyalty:** A multidimensional mapping of monetary and non-monetary values with vectors can also help to increase employee and customer loyalty to the company. By presenting the results of the audit in the form of vectors, employees and customers can better understand what values and goals the company is pursuing and how successful it is in achieving them.
5. **Increased transparency and credibility:** Multidimensional mapping of monetary and non-monetary values with vectors can also help increase the transparency and credibility of the company. By considering both monetary and non-monetary values, all stakeholders can better understand how the company was valued and what recommendations were made.

Overall, a multidimensional mapping of monetary and non-monetary values with vectors can help the shareholder, board of directors, management, employees, customers and the public to better understand the company's performance, better identify opportunities and risks, improve decisions, strengthen employee and customer loyalty, and increase the transparency and credibility of the company.

What could EY use multidimensional mapping with vectors for?

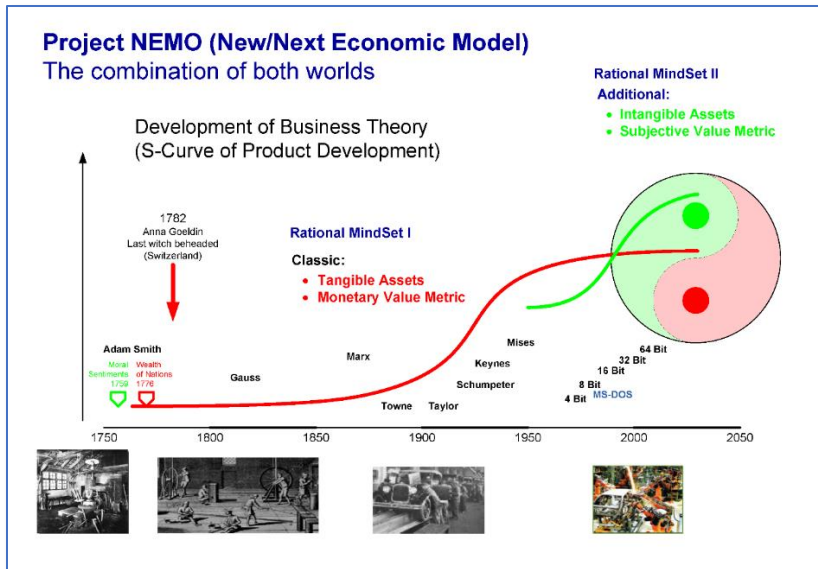
As a global audit, advisory, tax and transaction firm, EY can use multi-dimensional mapping of monetary and non-monetary values with vectors for various purposes. Some possible applications are:

1. **Sustainability reporting:** EY can use the multi-dimensional mapping of monetary and non-monetary values to help companies prepare sustainability reports. The mapping can help measure and report on companies' sustainability performance by taking into account environmental, social and financial factors.
2. **Valuation of companies:** EY can use the multidimensional mapping of monetary and non-monetary values to help companies assess their long-term value. The mapping can help to measure and take into account the impact of companies on the environment and society, thus contributing to an informed assessment of long-term value.
3. **Strategy development:** EY can use the multidimensional mapping of monetary and non-monetary values to help companies develop strategies that take into account both financial and non-financial factors. The figure can help to take into account the long-term impact of corporate decisions on the environment, society and other non-monetary factors.
4. **Risk management:** EY can leverage multidimensional mapping of monetary and non-monetary values to help companies identify and assess risks associated with environmental, social and other non-monetary factors. The mapping can help measure and account for the impact of risks on the financial performance and reputation of companies.

Overall, the multidimensional mapping of monetary and non-monetary values can help EY and its clients gain a more comprehensive understanding of companies' sustainability performance and long-term value.

Classification of the 'vector representation'

The vector illustration is part of the ['Project NEMO' \(New/Next Economic Model\)](#), which shows a complementary economic model that is better suited to the sustainable design of smart companies and societies.



'Technical' compilation and examples with links to download Excel templates.

Messen und darstellen mit mehrdimensionalen Zahlen und Metriken

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Zusammenfassung

In den Naturwissenschaften (Physik, Chemie, ...) und im Engineering ist es üblich, dass mit mehrdimensionalen Eigenschaften von 'Objekten' (Farbauswahlung in 'rot', 'grün' und 'blau'; Geschwindigkeiten und Kräfte haben 'einen Betrag' und 'eine Richtung' ...) gerechnet wird. Und für Phänomene, die innerhalb des klassischen Modells nicht erklärt werden können, wird das Modell erweitert und schließlich werden auch neue Metriken eingeführt. Beispiele: Elektromagnetische Felder (Volt, Ampere, ...), Magnetismus, Energie, Röntgenstrahlen, Chemische Elemente.

Für das bessere Verständnis und den Umgang mit mehrdimensionalen Größen werden Vektoren verwendet, mit denen arithmetisch (Matrizen) und auch grafisch gerechnet wird. Insbesondere die grafische Darstellung ermöglicht es, den Beitrag der einzelnen 'Objekte' im Zusammenhang mit dem Gesamtgeheimnis zu erkennen und schließlich 'die Objekte' neu anzupacken.

In diesem Dokument wird gezeigt, wie die Einführung von grafischen Vektoren die Transparenz auch in der Analyse und der Gestaltung 'ökonomischer Systeme' verbessern kann.

BE - Vektoren2022 draft01.docx 1

[Link to download](#)

(Link korrigiert 20230604)

ChatGPT provides answers to questions about the usefulness of vector mapping

MEHRDIMENSIONALE WERTEABBILDUNGEN MIT VEKTOREN

Antworten von 'chatGPT'

Antworten auf Fragestellungen hinsichtlich:

- Probleme, Nutzen und Schwierigkeiten einer Einführung
- Anwendung allgemein, für Manager, CFO, Wirtschaftsprüfer, Aktionäre, Buchhalter, Geschäftsführer

Die Antworten sind spannend - gerade weil sie von einer unabhängigen und emotionlosen Software erstellt wurden.

[Link to download](#)

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