Augmented Intelligence for Streamlining Business Process Management

By Katya Vladislavleva, PhD, PDEng, CEO DataStories Int. katya@datastories.com

MPD 2019

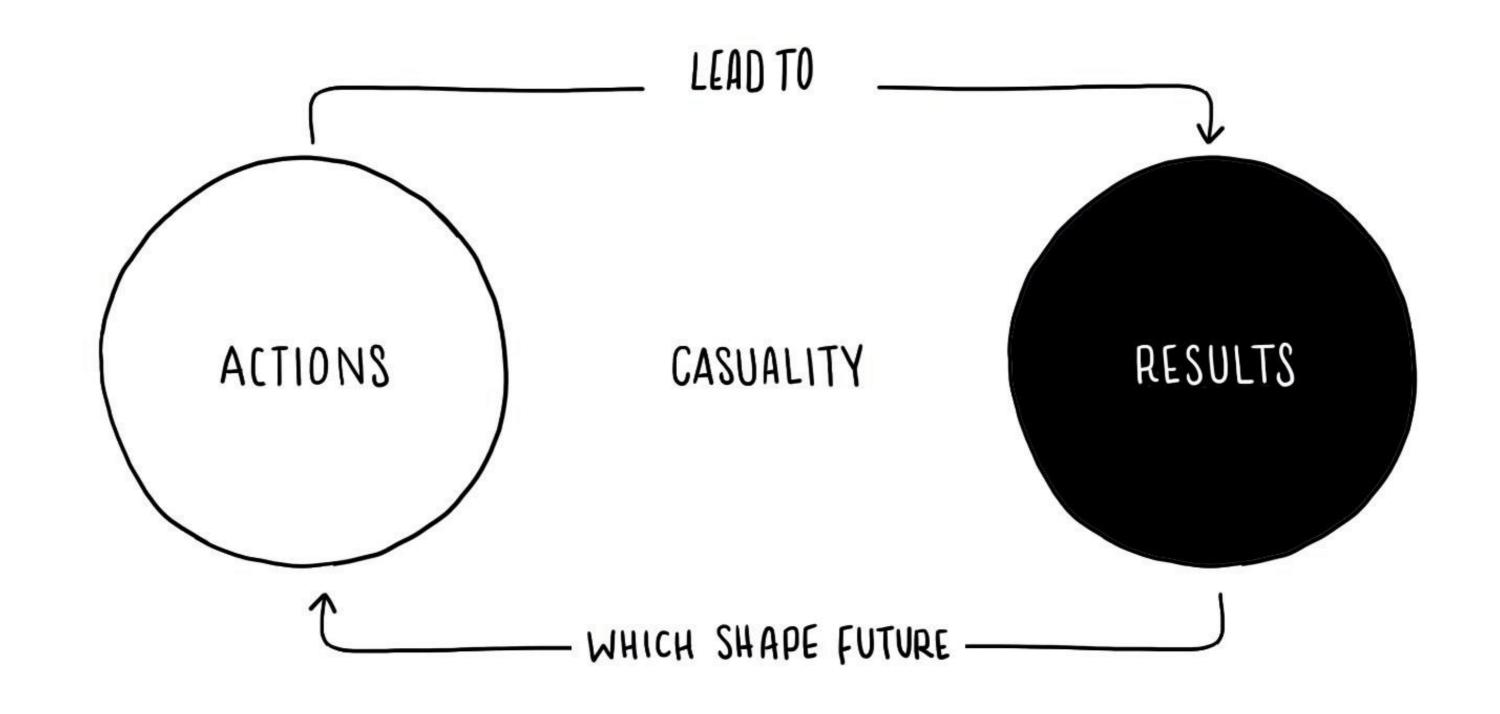


Data Analytics Advanced Analytics Predictive Analytics Prescriptive Analytics Big Data Machine Learning Data Science Artificial Intelligence (AI) Augmented Intelligence (AI)



How do we achieve data-driven culture?

- 1. Limited time 2. Limited resources 3. Little to no chances to make mistakes
- 4. Little hope for instant gratification



Source: "Tools for system thinkers" by Leyla Acaroglu, 07/09/2017











ADDRESS UNCERTAINTY





If you can measure it, you can understand it.

Ratherine Neville

If you can understand it, you can alter it.





Alis the answer, But What is the question??





How is everything related to everything else?

Correlation of causation?

What impacts my key performance metrics?

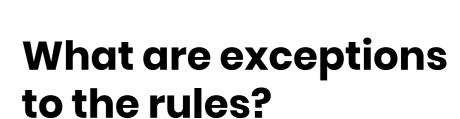
How can I be sure?

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What should I change to achieve the targets?

How can I be sure?



Why is that? What are we missing?







UNITED NATIONS DEVELOPMENT PROGRAMME Human Development Reports

Belize Benin

Bhutan

Botswana

Brunei Darussalam

Brazil

Bulgaria

Bolivia (Plurinational State of)

Bosnia and Herzegovina

Towards HDR 2019 2018 Statistical Update Data Country Profiles Blog News

Data

Reader's Guide

Human Development Index (HDI)

The 2018 Global Multidimensional Poverty Index (MPI)

Frequently Asked Questions (FAQs)

Calculating the Indices

2018 Annex Technical Notes

Understanding the data

Developing regions

Principles of international statistics

Sources of data used

Data Application Programming Interface (API)

Download 2018 Human Development Data Bank

Download 2018 Statistical Annex

Table 1: Human Development Index and its components

Table 2: Trends in the Human Development Index, 1990-2017

Table 3: Inequality-adjusted Human Development Index

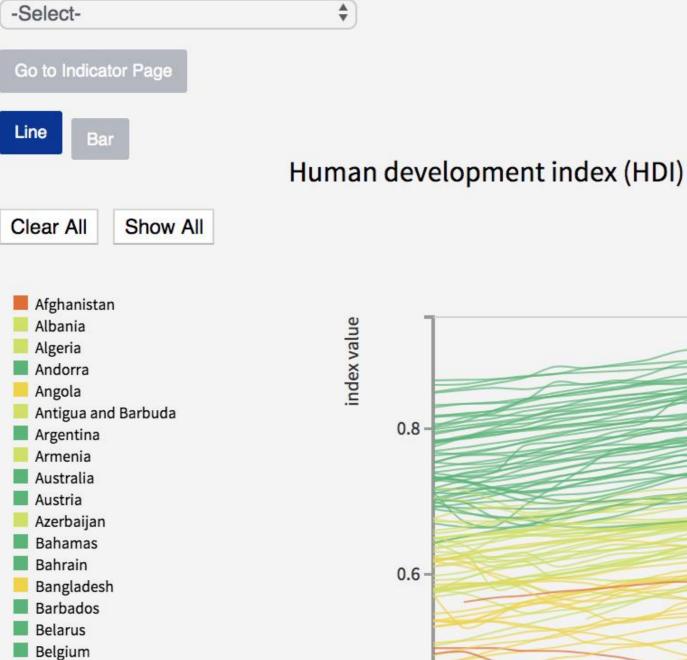
Table 4: Gender Development Index

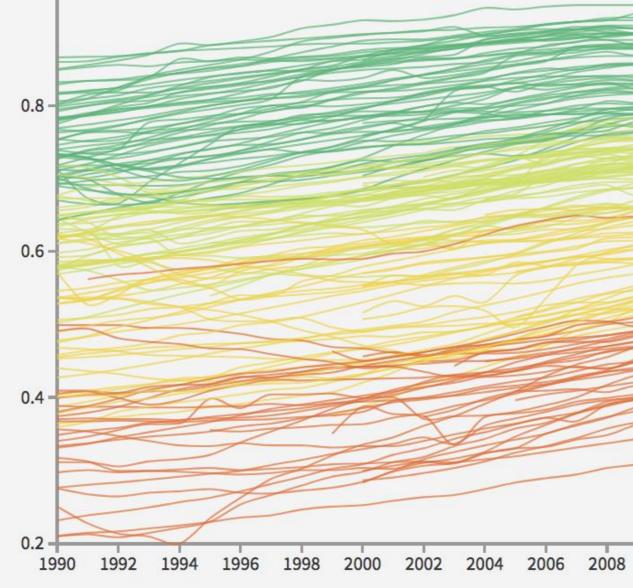
Table 5: Gender Inequality Index

Table 6: Multidimensional Poverty

Human Development Data (1990-2017)

Select data by dimension, indicator, year and/or country to see a dynamic interactive visualization of the (represented as line for trends, or bar for single years) Dimension:



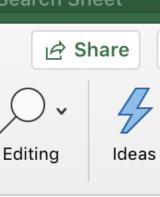


English

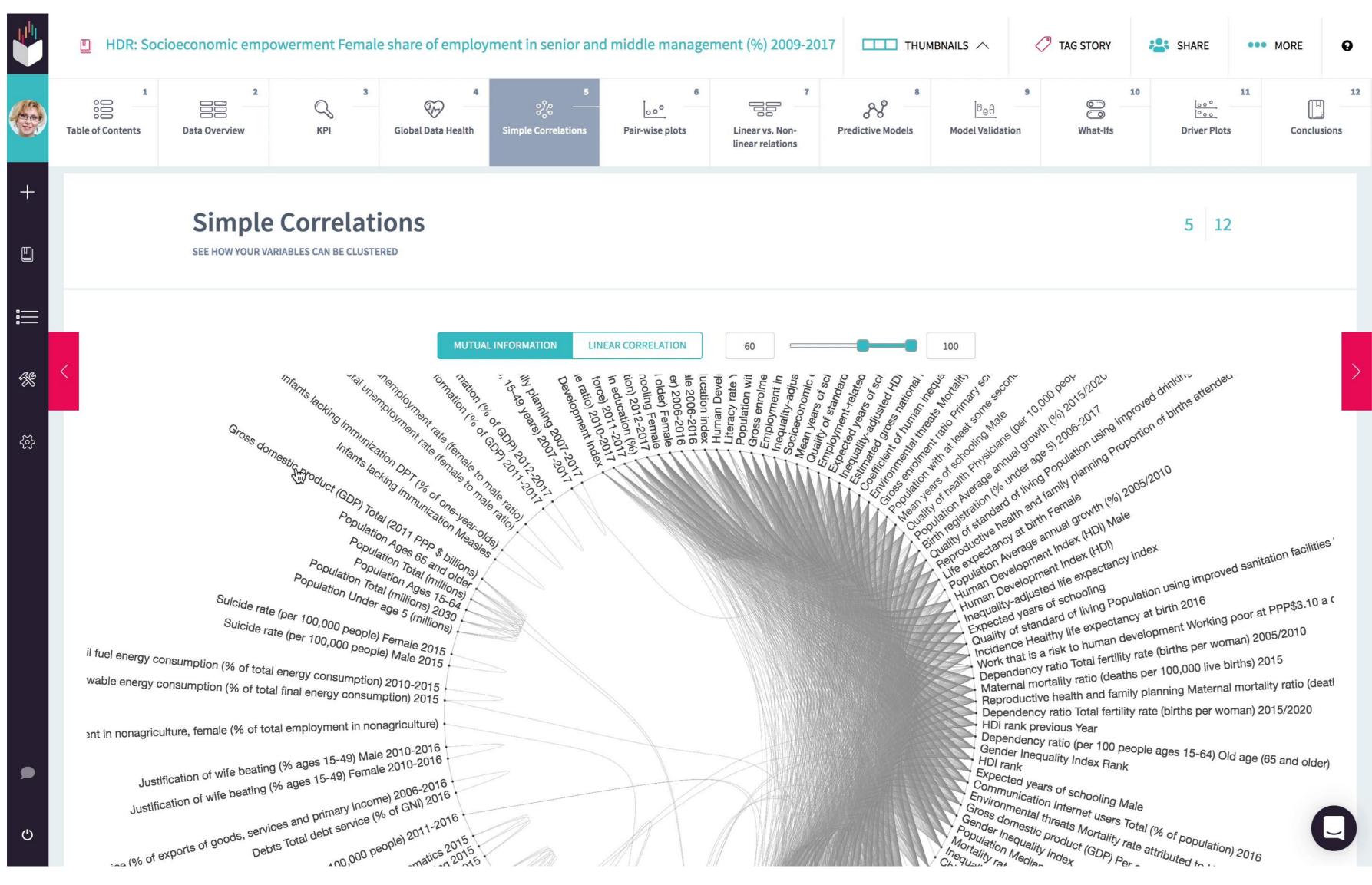
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	A1 $\stackrel{\bullet}{\checkmark}$ \times f_x Country								
		А	В	С	D	E	F	G	Н
	1	Country	Year	HDI rank	Human Development	Life expectancy at b	Expected years of schooling	Mean years	Gross natio
	2	Norway	2017	1	0.95252202	82.328	17.85206	12.56682	68012.4929
e	3	Switzerland	2017	2	0.94399757	83.473	16.20882	13.408	57625.0697
	4	Australia	2017	3	0.938631285	83.068	22.92125	12.85504	43560.0577
	5	Ireland	2017	4	0.938410059	81.643	19.61374		
	6	Germany	2017	5	0.93604342	81.178			
	7	Iceland	2017	6	0.934879252	82.912			
	-	Hong Kong, (2017	7	0.932582914	84.097	16.32567		
		Sweden	2017	7	0.932804549	82.625	17.63459695		
		Singapore	2017	9	0.932041606	83.218			
		Netherlands	2017	10	0.930638593	82.005	18.04483		
		Denmark	2017	11	0.929474111	80.878			
		Canada	2017	12	0.925952399	82.541	16.43739864		
		United State	2017	13	0.923913589	79.541			
	-	United Kingd		13	0.921548922	81.717			
		Finland	2017	14	0.919652775	81.496			
		New Zealand	2017	16	0.916687629	82.038			
		Belgium	2017	17	0.916066037	81.303	19.7624		
		Liechtensteir	2017	17	0.916082868	80.41	14.72093		
-		Japan	2017	19	0.909152957	83.908			
		Austria	2017	20	0.907755179	81.77	16.0812		
		Luxembourg	2017	21	0.903938861	81.955			
		Israel	2017	22	0.903244841	82.664			
		Korea (Repul	2017	22	0.902561126	82.361	16.49749		
-		France	2017	24	0.90080244	82.716			
		Slovenia	2017	25	0.896223829	81.116			
		Spain	2017	26	0.891020216	83.301	17.87704		
		Czechia	2017	27	0.887561429	78.877			
		Italy	2017	28	0.879769445	83.169	16.27219		
		Malta	2017	29	0.878186795	81.012			
		Estonia	2017	30	0.871042039	77.709	16.08842		
		Greece	2017	31	0.869934067	81.41	17.25405		
		Cyprus	2017	32	0.868784385	80.67	14.57015		
	34	Poland	2017	33	0.865075041	77.77	16.4332	12.29398	26150.4026
	35	United Arab	2017	34	0.86275666	77.412	13.64343	10.78	67804.5585
-	36	Andorra	2017	35	0.857683594	81.663	13.52401627	10.15545	47573.8701
	37	Lithuania	2017	35	0.858135145	74.768	16.10477	12.96103	28313.5968
	38	Qatar	2017	37	0.855616448	78.331	13.36037	9.80616	116817.978
	39	Slovakia	2017	38	0.855200237	76.977	14.96488	12.4525103	29467.3228
2010	40	Brunei Darus	2017	39	0.853266972	77.374	14.46502	9.06	76427.2103
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👱 Download Data

Count: 187



How is everything related to everything else?



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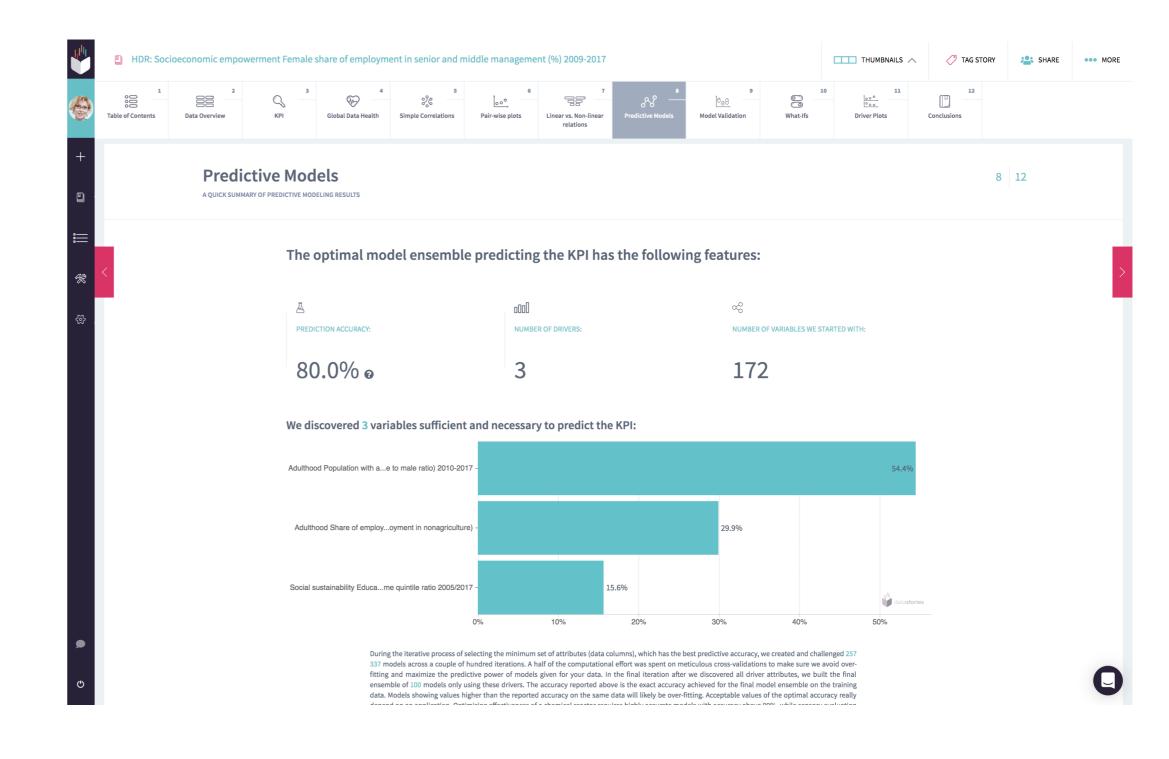




What impacts my Key Performance Metric?

Socioeconomic Empowerment: Share of women in senior and middle management %

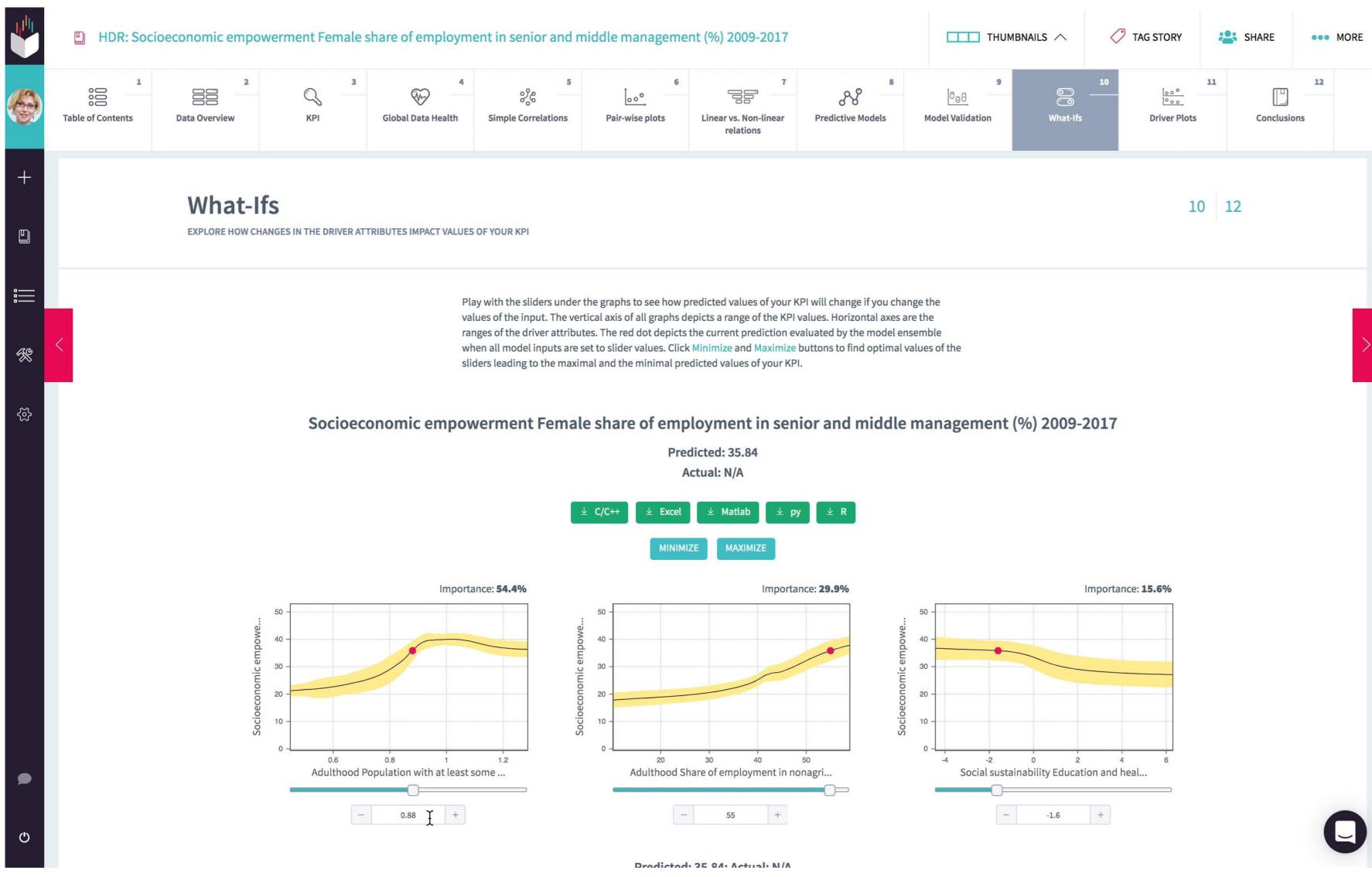
- 1. Adult population with at least some secondary education 2010-2017, Female to male ratio
- 2. Adult share of employment in nonagriculture, Female (% of total)
- 3. Social sustainability: Income quintile ratio change 2010-2017 (%)







What can I change to improve?



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MALTE LOHAN Orgalim Director General, Europe's Technology Industries

DataStories had the experience and expertise to show us the possibilities of deploying AI in a policy context, as we experimented with generating fresh forward-looking insights, forecasts and predictive models. The aim was to explore how socio-economic indicators are related to each other and to important industrial KPIs – for example understanding the impact of R&D investments on productivity. We look forward to building on this work as we continue to champion smarter policy.



UWE COMBÜCHEN

Director General at CEEMET – European Employer organisation of the metal, engineering and technology-based industries

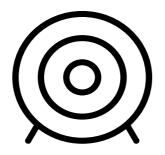
DataStories has tremendously helped Ceemet, the European tech employers. DataStories comprehend this highly complex matter and have the talent to communicate AI and the potential it holds in a transparent and understandable way. More people with the skills and the attitude of the CEO Katya Vladislavleva and the team would certainly help to increase trust in AI so it can fully unleash its human centric potential in a Europe, that has chosen to underscore the ethical approach to AI, and beyond.





Four questions towards effective humancentric business management





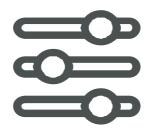
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Correlation of causation?

What impacts my key performance metrics?

How can I be sure?

95% of returns on Investment are less than two quarters



What should I change to achieve the targets?

How can I be sure?



What are exceptions to the rules?

Why is that? What are we missing?





DataStories Int.

Facilitate data-driven culture with outcomedriven Al

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13

Stories + Sharing

AUGMENT BUSINESS USERS WITH EASY TO USE TOOLS

AUGMENT DATA SCIENTISTS WITH PYTHON LIBRARIES

ENABLE SHARING AND COLLABORATION

ENABLE DEPLOYMENT AND MONITORING





culture is collective conversations of your enterprise

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