SPN / NYU Stern
Big Data and Sustainable Development
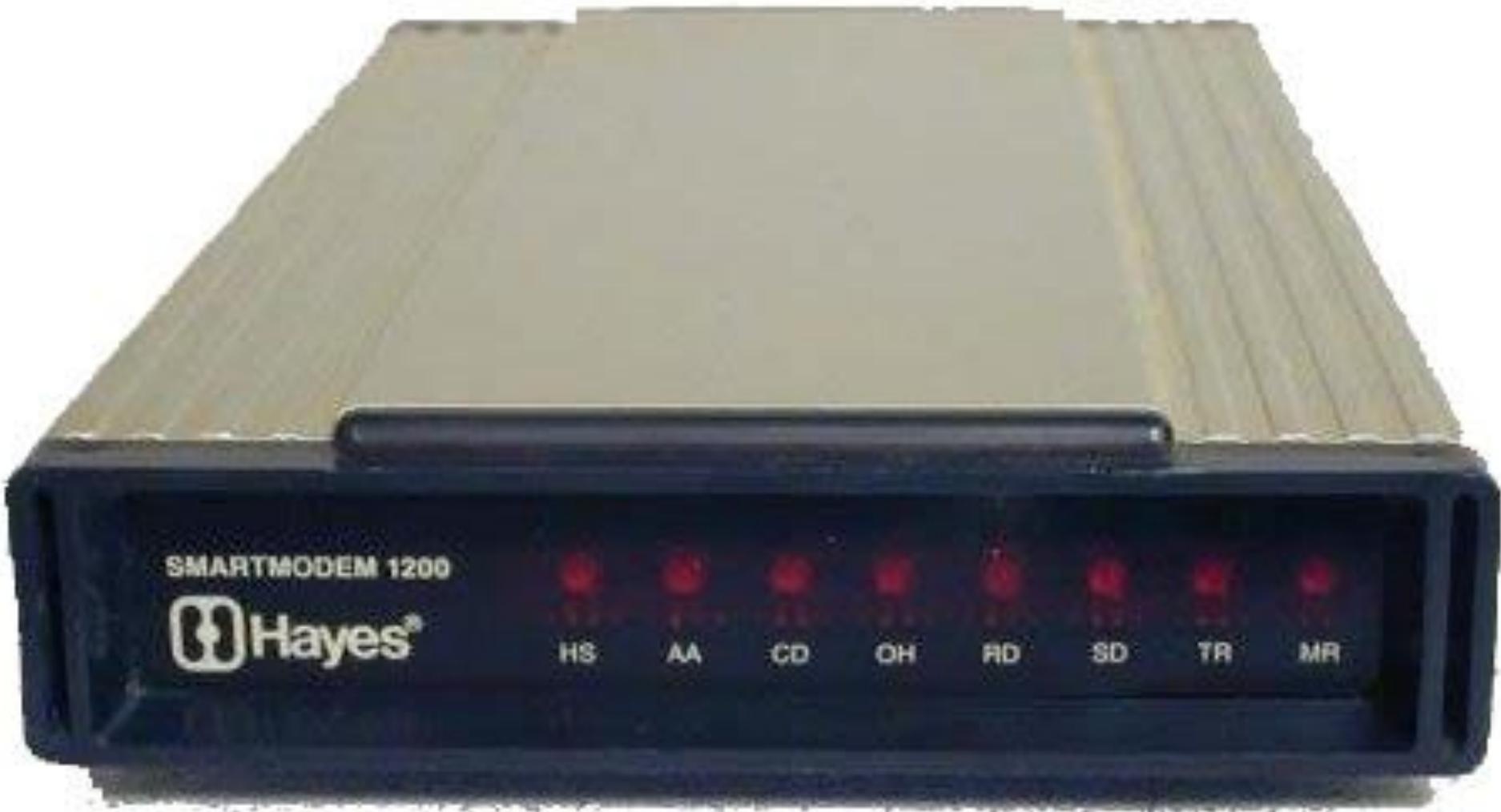April 14, 2016

Louis Dominick Coppola

Co-Founder & EVP, Governance & Accountability Institute (G&A)

Board Member, Global Sourcing Council (GSC)

Adjunct Professor, Bard College M.B.A in Sustainability

Navigating the Way to Sustainability...

F.B.I. TERMINAL

Welcome back, agent:

Enter your authorized FBI terminal access code:

This is a secured Federal government system. Unauthorized access is strictly prohibited. All activity is fully monitored. Individuals who attempt to gain unauthorized access to this system are subject to Federal criminal prosecution.

>_ Session   System

Sun 29 March 21:19

My Background

- **1994 – FBI Called Mom**
- 1998 – Molloy College (CIS & CS)
- **1999 – IT Support @ Rowan & Blewitt**
- 2004 – R&B Acquired by IPG
- 2005 – Molloy College (MBA)
- 2007 – G&A Institute Launched in Garage (Literally)

- **2016 – NYU Big Data & Sustainability**

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GRI's US, UK, and Ireland Data Partner

▶ G&A Approached by GRI to Become Exclusive US Data Partner in 2011

▶ Analyze Every Report Issued By US HQ Organizations
  ▶ 100+ Data Points Collected On Every Report
  ▶ Feeds GRI's Global Report Database (database.globalreporting.org)
  ▶ Over 1200 Reports Last Year

▶ Two Years Later GRI Invited G&A To Also Be The Data Partner for UK and Ireland

Global Reporting Initiative™ ✓ Organizational Stakeholder 2015

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Sustainability – What Matters?
The Study Parameters
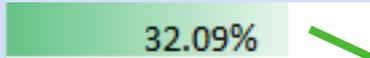
sustainability – what matters?

- ▶ 1,246 **Global** GRI reporters materiality assessments

- ▶ From 35 GRI defined sectors

- ▶ Responses to all 84 performance indicators
  - ▶ Full disclosure (1 point)
  - ▶ Partial disclosure (1/2 point)
  - ▶ Undifferentiated disclosure (1/2 point)
  - ▶ No disclosure (0 point)
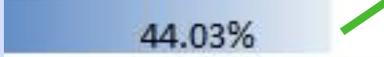
Example of Financial Sector GRI Indicator Ratings

- ▶ Full Disclosure
  - 32.09%

- ▶ Partial Disclosure
  - 8.21%

- ▶ Undifferentiated Disclosure
  - 44.03%

- ▶ No Disclosure
  - 15.67%
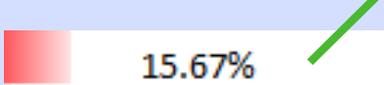
EN15	EN16	EN17
5.22%	32.09%	24.63%
0.75%	8.21%	6.72%
10.45%	44.03%	29.10%
83.58%	15.67%	39.55%
10.821	58.209	42.537
EN15	EN16	EN17

Overall

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Sample – Top 5 GRI Aspects
Retailers

Rank	All Sector Score	Diff Difference	Sector Sector Score	G3.1 Indicator	G4 Indicator	Category	Aspect	Description
1	35.51	14.49	50.00	EN29	G4-EN30	(EN) Environment	Transport	Significant environmental impacts of transporting products and other goods and materials used for the organization's operations, and transporting members of the workforce.
2	39.25	9.51	48.75	HR2	G4-HR10	(HR) Human Rights	Investment and Procurement Practices	Percentage of significant suppliers, contractors, and other business partners that have undergone Human Rights (HR) screening and actions taken.
3	45.14	8.61	53.75	PR1	G4-PR1 (Data points moved to Guidance)	(PR) Product Responsibility	Customer Health and Safety	Life cycle stages in which health and safety impacts of products and services are assessed for improvement, and percentage of significant products and services categories subject to such procedures.
4	43.14	8.12	51.25	EN7	G4-EN6	(EN) Environment	Energy	Initiatives to reduce indirect energy consumption and reductions achieved.
5	23.80	6.21	30.00	EN27	G4-EN28	(EN) Environment	Products and Services	Percentage of products sold and their packaging materials that are reclaimed by category.

Sample – Top 5 GRI Aspects
Mining

Rank	All Sector Score	Diff Difference	Sector Sector Score	G3.1 Indicator	G4 Indicator	Category	Aspect	Description
1	18.54	20.94	39.47	EN15	G4-EN14	(EN) Environment	Biodiversity	Number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk.
2	31.02	20.30	51.32	EN10	G4-EN10	(EN) Environment	Water	Percentage and total volume of water recycled and reused.
3	33.31	19.33	52.63	EN14	Entire Indicator Moved to Guidance	(EN) Environment	Biodiversity	Strategies, current actions, and future plans for managing impacts on biodiversity.
4	29.57	19.11	48.68	EN13	G4-EN13	(EN) Environment	Biodiversity	Habitats protected or restored.
5	34.11	18.53	52.63	EN11	G4-EN11	(EN) Environment	Biodiversity	Location and size of land owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas.
6	29.05	18.32	47.37	EN9	G4-EN9	(EN) Environment	Water	Water sources significantly affected by withdrawal of water.

5 LEAST Reported Indicators in ALL SECTORS

79	18.54	EN15	G4-EN14	(EN) Environment	Biodiversity	Number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk.
80	18.22	HR11	G4-HR12	(HR) Human Rights	Remediation	Number of grievances related to (HR) Human Rights filed, addressed, and resolved through formal grievance mechanisms.
81	17.82	SO10	Entire Indicator Moved to Guidance	(SO) Society	Local Communities	Prevention and mitigation measures implemented in operations with significant potential or actual negative impacts on local communities.
82	17.50	SO9	G4-SO2	(SO) Society	Local Communities	Operations with significant potential or actual negative impacts on local communities.
83	16.29	HR10	G4-HR9, G4-HR11	(HR) Human Rights	Assessment	Percentage and total number of operations that have been subject to (HR) Human Rights reviews and/or impact assessments.
84	15.49	LA15	G4-LA3	(LA) Labor Practices and Decent Work	Employment	Return to work and retention rates after parental leave, by gender.

SDG Compass / Rosetta Stone for Sustainability What Matters Data

▶ Guide for Business Action in the SDGs (sdgcompass.org)

▶ 17 SDGs w/ 169 Underlying SDG Targets

▶ Compass Links GRI G4 Indicators to SDG Targets

▶ Rosetta Stone to Examine "What Matters?" Data for SDG alignment trends in sectors, countries, etc

SDG Compass
The guide for business action on the SDGs

GRI · United Nations Global Compact · wbcsd

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193 World Leaders Committed to
17 SDGs on September 25, 2015

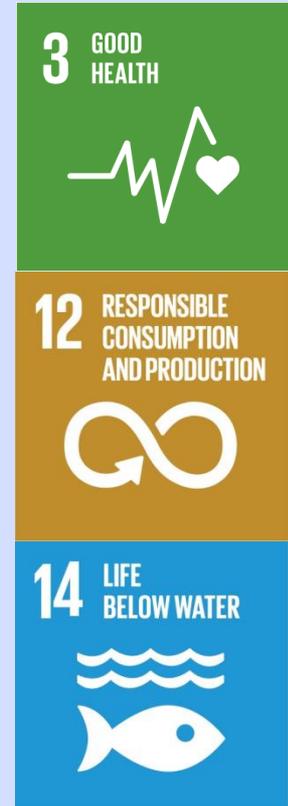# EXAMPLE: Top 3 SDG Targets (of 169) for Chemicals Sector

► ## SDG Target 3.9
  ► By 2030, substantially reduce the number of deaths and illnesses from **hazardous chemicals and air, water and soil pollution and contamination**

► ## SDG Target 12.4
  ► By 2020, achieve the environmentally sound management of **chemicals and all wastes throughout their life cycle**, in accordance with agreed international frameworks, and **significantly reduce their release to air, water and soil** in order to minimize their **adverse impacts on human health and the environment**

► ## SDG Target 14.3
  ► **Minimize and address the impacts of ocean acidification,** including through enhanced scientific cooperation at all levels

3 GOOD HEALTH

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

14 LIFE BELOW WATER

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EXAMPLE: Top 3 SDG Targets (of 169) for Waste Management Sector

▶ ## SDG Target 8.4

    ▶ Improve progressively, through 2030, **global resource efficiency** in **consumption and production** and endeavour to **decouple economic growth from environmental degradation**, in accordance with the 10-year framework of programmes on sustainable consumption and production, with developed countries taking the lead

▶ ## SDG Target 12.2

    ▶ By 2030, achieve the **sustainable management and efficient use of natural resources**

▶ ## SDG Target 12.5

    ▶ By 2030, substantially **reduce waste generation** through **prevention, reduction, recycling** and **reuse**

8 DECENT WORK AND ECONOMIC GROWTH

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

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GSC's 17 Weeks / 17 SDGs Initiative
Sign Up @ gscouncil.org

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   ▶ March 7 (SDG 1) Thru
     Week of June 27 (SDG 17)

▶ Providing through our
Newsletters, Partners, Web Pages,
Social Media

   ▶ Tools and Resources for Aligning Business

     • Learn From Leaders Taking Action on SDGs

     • Collaborate with NGOs to Amplify SDG Efforts

     • Watch 3S Awards Participants Examples of SDG Impact in The Supply Chain

     • Attend our Webinar Series / Events

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Upcoming G&A Research – 2016 / 2017

▶ Sustainability G4 - What Matters?
  ▶ First 3000+ G4 Reports Published
  ▶ Analyze Disclosure Levels of All G4 Indicators
  ▶ Identify the Material Indicators for 35 Sectors
  ▶ Tie in Multiple Third Party Data Sources for Context (SDG Compass, Reprisk, Sustainalytics, RobecoSAM etc)

▶ GRI Technology Consortium
  ▶ "Unleash The Data" From PDFs / Websites
  ▶ WikiRate Pilot Project
    • Crowd Sourced Sustainability Data
    • Gamification Techniques
    • Loading First 250 GRI G4 Reports Data
    • Demoing @ GRI Global Sustainability Conference in Amsterdam - May 18-20th of 2016

Thank You! Contact Us Info & Useful Links

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