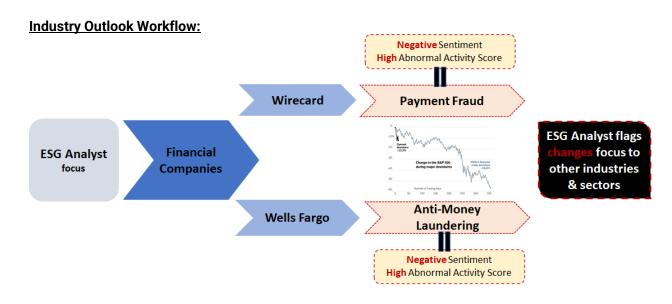
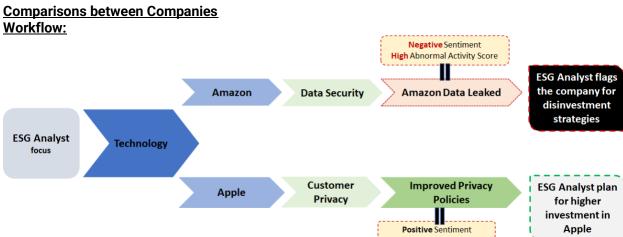
The below document details the Knowledge Graph application for an ESG Analyst.

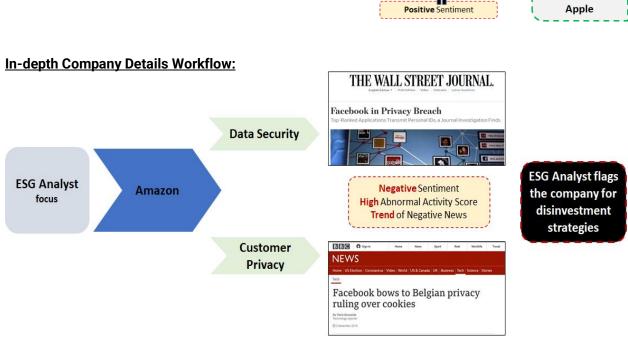
## Target Persona / Process & Identifying Pain Points

**Target Persona:** ESG Analyst **Industry**: Asset Management

Industry Outlook	In-depth Company Details	Comparisons between Companies
ESG analysts look at the " <b>big picture</b> " for an investment idea or selection of stocks.	Using the KG, an ESG analyst would be given the ability to quickly identify and analyze significant events for a company	The KG can be utilized to <b>compare</b> multiple companies on the basis of common events or regions.  A company's stocks can be identified as profitable from <b>a company's ESG trends</b> and
Our KG would help ESG Analysts to view companies on a high-level industry and sector basis.	in any given time and invest accordingly.  The KG would act as a one-stop summary	aid in making a final investment decision.  Data Security  Americas
KG could help in finding industry leaders using sector-specific filters based on regions, sectors,	visualization to show the events with positive or negative sentiment related to a company.	Technology  Amazon  Amazon  AmazonDataLeaked
events, abnormality or sentiments to better understand the industry.	KG can help in performing root-cause analysis for specific changes in a company's ESG performance	Customer Privacy CNN







## As-Is Scenario & Mapping to the Pain Points

Pain Points	"As Is" Scenario
Questionable Data Reliability	<ul> <li>Too much of the available ESG information is of poor quality;</li> <li>Suboptimal timeliness;</li> <li>Mixed &amp; unassessed relevance.</li> </ul>
Lack of Scoring Rubrics	<ul> <li>Include but are not limited to judgments concerning degrees of positivity/ negativity/ relevance, presence of neutrality etc.</li> </ul>
Tunnel Vision	<ul> <li>Missed opportunities for failing to grasp the "bigger picture" when analyst is hyper focused on specifics</li> <li>E.g. data privacy issue in Amazon vs. technology industry</li> </ul>
Missed Relationships	<ul> <li>Caused by insufficient analyses;</li> <li>E.g. hard to see indirect relationships between non-adjacent items in tables         <ul> <li><cnn, amazondataleaked="" wrote,=""></cnn,></li> <li><amazondataleaked, documentabout,amazon=""></amazondataleaked,></li> </ul> </li> </ul>
Inefficient Workflow	<ul> <li>"Data swamp"</li> <li>Unintuitive and difficult to navigate when comparisons are not straightforward and data management is bad</li> </ul>
Low Reusability & Scalability	EDA done for specific projects might be subject to 'one time only' and is hard to scale
Low Explain-ability	Difficult to explain to (non-tech) third party (e.g. shareholders)

## **To-Be Scenario & Addressing the Pain Points**

Pain Points	"To Be" Scenario	
Lack of Scoring Rubrics	With the sentiment and relevance score acting as a numeric indicator, it's easier for the analyst to comprehend the characteristics of the nodes relationship	
Tunnel Vision & Missed opportunities	Polymorphic characteristics of KG allows:  Efficiently finding data interlinks between nodes Ability to see relationships from top-down level, seeing the big picture Navigating intuitively across concepts, relationships, and fields Filters: the feature allows the users to analyze the Knowledge Graph from multiple views, depending on their priorities and needs  Primary:  By industry/sector By event/group By entity name By region By entity type	
	Secondary: relevance and sentiment range	
Inefficient Workflow	<ul> <li>Quickly extract insights and easily share among stakeholders</li> <li>Improve decision-making process and workflow's speed and accuracy with the straightforward relationship between nodes</li> </ul>	
Low Reusability & Scalability	The Knowledge Graph can be reused with new dataset, ideally providing real-time insights to target users in future models	
Low Explainability	Visual cues make it easier for users to understand and explain the Knowledge Graph	