



social hotspots database
www.shd.org

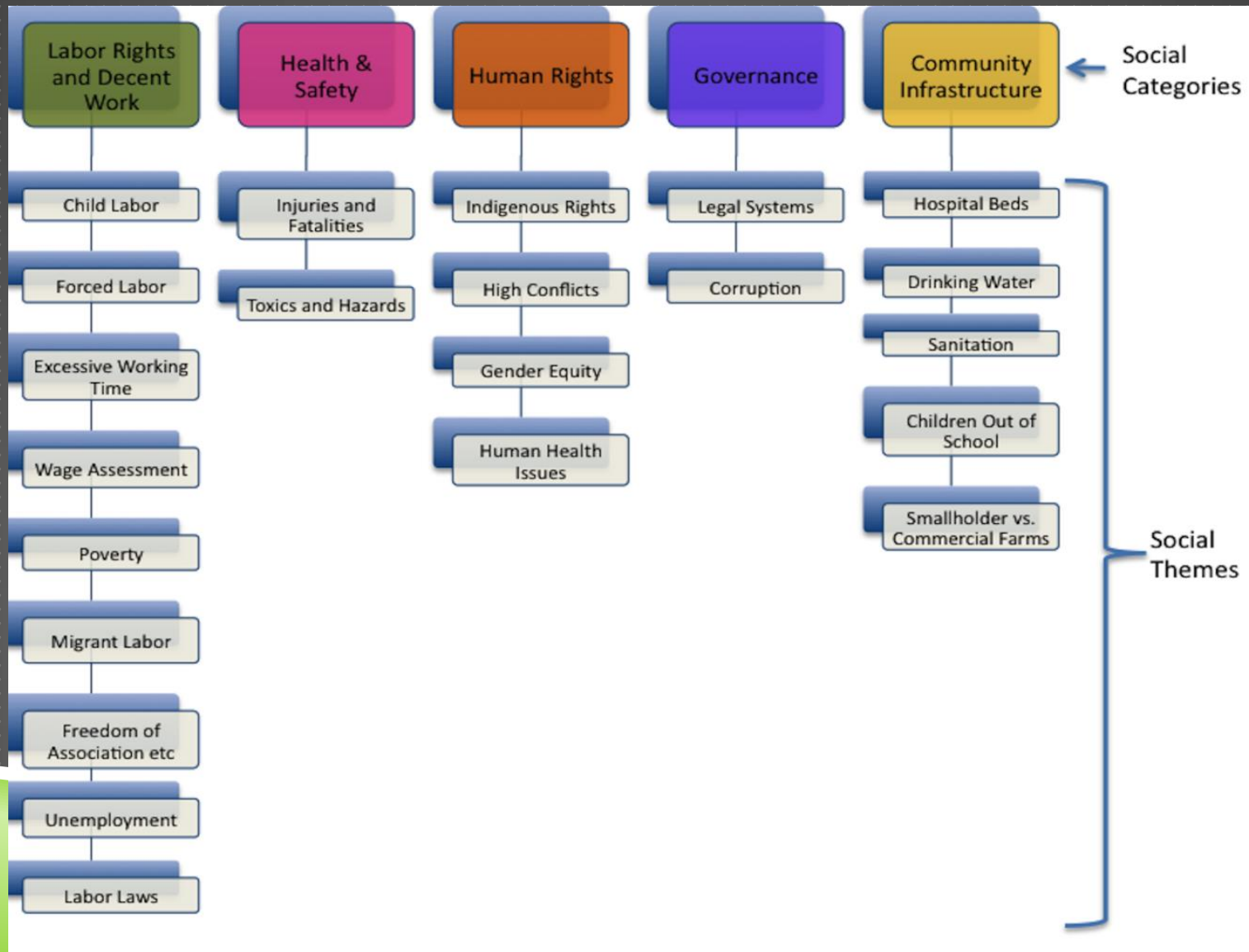
SOCIAL HOTSPOT DATABASE WEB PORTAL

Introductory User Tutorial

INTRODUCTION

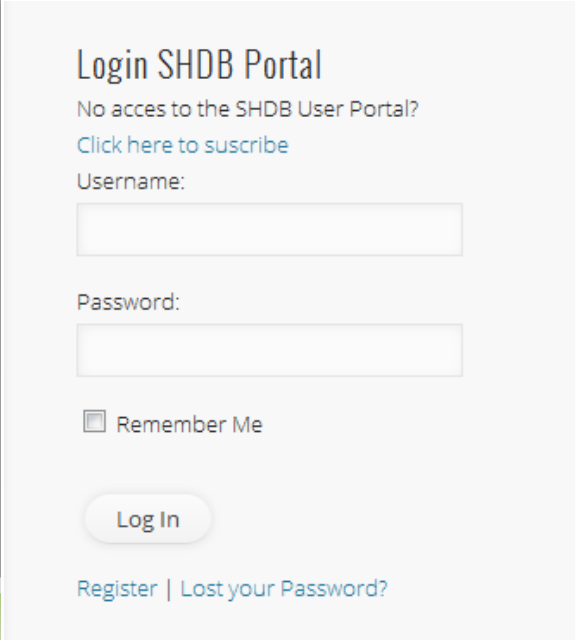
- ▶ Development began in 2009 with a beta version of the web portal available in 2011
- ▶ March 2013 - a new web portal employing “Tableau” data visualization software released
- ▶ New & updated data, visualizations and interactive capabilities
- ▶ 22 Social Theme Tables in 5 Categories with over 100 indicators
- ▶ Indicators are used to calculate the risk of a Social Issue occurring in a Country-specific Sector
- ▶ A combination of risks are used to calculate a Social Hotspot Index to prioritize supply chain risks

SHDB CATEGORIES & THEMES



SIGN UP

- ▶ The cost to access the SHDB web portal is set low so as not to be a barrier for anyone
 - ▶ \$200 USD for users in private companies
 - ▶ \$100 USD to academic and non-profit users in OECD countries
 - ▶ \$25 USD to academic and non-profit users in non-OECD countries.
- ▶ Once registered, it's easy to login to the web portal from any page of the socialhotspot.org website.
- ▶ If you are not yet registered, you must click on “Click to subscribe” and fill out the registration form



The screenshot shows a white login form titled "Login SHDB Portal". Below the title, it says "No access to the SHDB User Portal?" followed by a blue link "Click here to subscribe". There are two input fields: "Username:" and "Password:". Below the password field is a checkbox labeled "Remember Me". At the bottom of the form is a rounded "Log In" button. Below the button are two blue links: "Register" and "Lost your Password?".

Login SHDB Portal

No access to the SHDB User Portal?
[Click here to subscribe](#)

Username:

Password:

Remember Me

[Register](#) | [Lost your Password?](#)

THE 3 CAPABILITIES OF THE NEW SHDB WEB PORTAL

- ▶ Visualize Global Sector Risks on a map for a Specified Issue
- ▶ Analyze Risks for Multiple Issues in a Supply Chain for selected Country-specific Sectors (CSS)
- ▶ Compare the Social Hotspot Indexes for Country-specific Sectors and Identify the Major Contributing Themes within a Category

I. GLOBAL SECTOR RISK MAP (1 OF 4)

- ▶ Once you are registered as a SHDB Web Portal User, you can choose from one of three interactive visualizations.
- ▶ This first section explains the Single Issue Risk Maps capability. Click on the link circled in green below.

Welcome to the SHDB User Portal

The portal currently has three main capabilities, please select one:

1. **Single Issue Risk Maps:** Visualize global sector risks on a map for a specified social issue
2. **Multiple Issue Bar Charts:** Analyze risks for multiple issues in a supply chain for selected country-specific sectors
3. **Social Hotspot Index:** Compare the Social Hotspot Indexes for country-specific sectors and identify the major contributing themes within a category

I. GLOBAL SECTOR RISK MAP (2 OF 4)

- ▶ First, you are directed to the Labor Rights category, you can switch to any of the other four categories as well (Human Rights is shown below)
- ▶ Select one or more Social Themes and see the Characterized Issues that fall under those themes
- ▶ It is then necessary to choose a specific sector or select country-level (which is an average of the risks for all sectors). There is a scrollbar to choose from all 57 sectors

Single Issue Risk Maps :

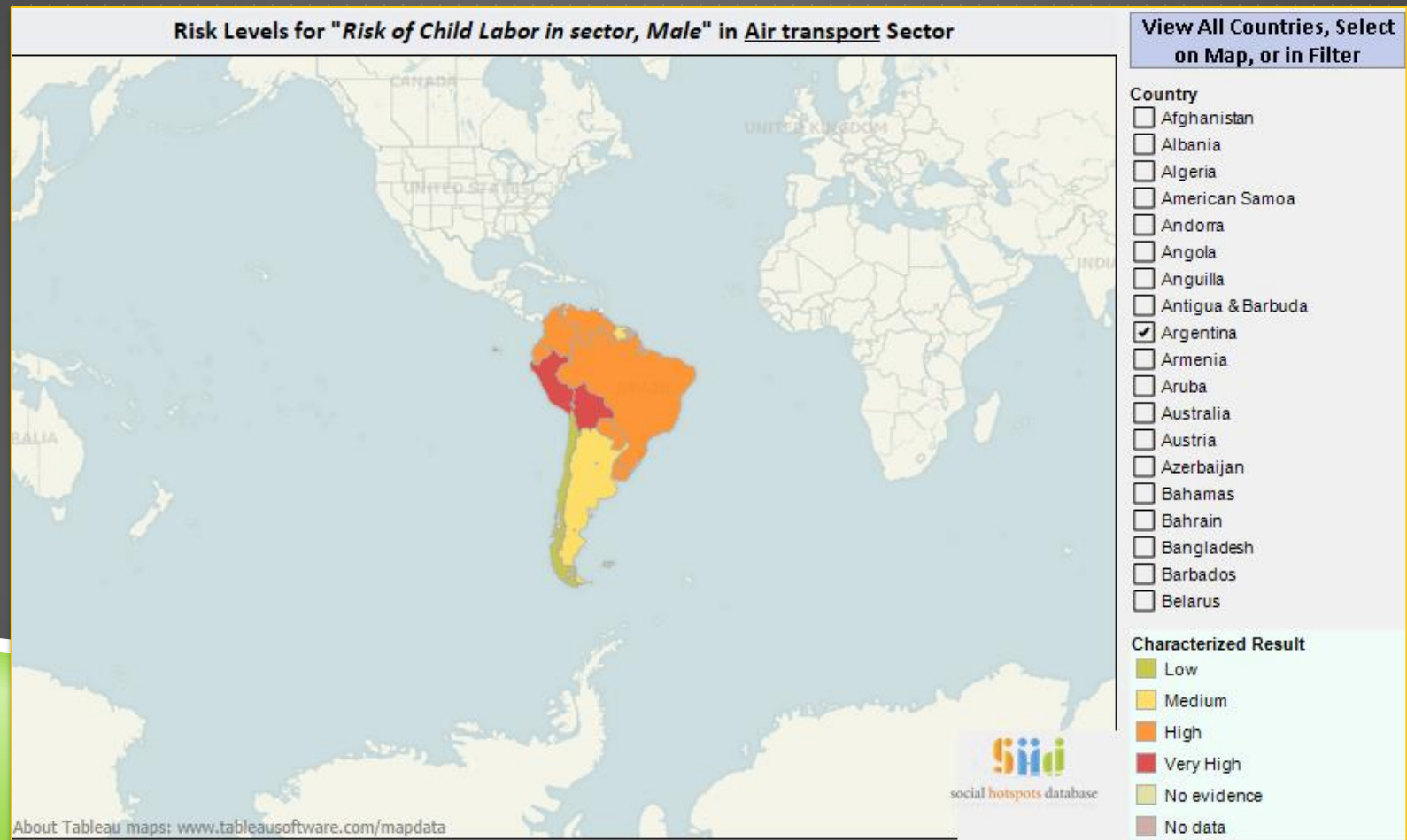
[Labor rights](#) | [Health & Safety](#) | [Human rights](#) | [Governance](#) | [Community](#)

Visualizing Global Risk for a Specific Issue in "Human Rights"

Choose one or more Themes	Choose a Single Issue	Choose a Single Sector or Country Level
Themes for Human Rights <input type="checkbox"/> (All) <input type="checkbox"/> Gender Equity <input checked="" type="checkbox"/> High Conflict Zones <input type="checkbox"/> Human Health - Communicable Diseases <input type="checkbox"/> Human Health - Non-communicable Diseases and... <input type="checkbox"/> Indigenous Rights	Characterized Issue <input type="radio"/> Characterization of Cingranelli-Richards (CIRI) Huma... <input type="radio"/> Characterization of Cingranelli-Richards (CIRI) Huma... <input type="radio"/> Characterization of Cingranelli-Richards (CIRI) Huma... <input type="radio"/> Characterization of Global Gender Gap Index <input type="radio"/> Characterization of Global Inequality Index <input type="radio"/> Characterization of Heidelberg Barometer-indicator1 <input type="radio"/> Characterization of Heidelberg Barometer-indicator2 <input type="radio"/> Characterization of Heidelberg Barometer-indicator3 <input type="radio"/> Characterization of Indigenous Population <input type="radio"/> Characterization of Minority Group International's Pe... <input type="radio"/> Characterization of Refugees <input type="radio"/> Characterization of Social Instituions and Gender In...	Sector <input checked="" type="radio"/> *Country Level <input type="radio"/> Air transport <input type="radio"/> Animal products nec <input type="radio"/> Beverages and tobacco products <input type="radio"/> Bovine cattle, sheep and goats, horses <input type="radio"/> Bovine meat products <input type="radio"/> Business services nec <input type="radio"/> Cereal grains nec <input type="radio"/> Chemical, rubber, plastic products <input type="radio"/> Coal <input type="radio"/> Commerce <input type="radio"/> Communication

I. GLOBAL SECTOR RISK MAP (3 OF 4)

- ▶ To start, all countries are colored. By selecting one or more countries you can drill down or zoom in to countries and regions of interest (e.g., countries of South America are chosen below)



I. GLOBAL SECTOR RISK MAP (4 OF 4)

- ▶ By panning the mouse over a country, the metadata for that country-specific sector will pop up.



- ▶ By clicking on the icon circled below, you can download a pdf or image of the risk map. Also, directions on how to use the page are available below the visualization.

HOW TO USE THIS PAGE: To View the SHDB Risk Results for a specific issue within the Labor Rights and Decent Work Category, you can choose a specific Theme (or select multiple themes to see relevant issues in all). The relevant Risk Issues within that Theme will then display in the Characterized Issue drop down box. Choose one of those (note that more than one risk issue cannot be viewed on this map at one time). Then, over to the right, you must choose one sector (or Country Level). Note that many of the Risk Issues only have data



2. MULTIPLE ISSUES IN SUPPLY CHAIN (1 OF 5)

- If you choose the second of the three capabilities, you will be taken to a visualization using a bar chart that shows multiple risks for 5 user-chosen country-specific sectors.

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3. **Social Hotspot Index:** Compare the Social Hotspot Indexes for country-specific sectors and identify the major contributing themes within a category

2. MULTIPLE ISSUES IN SUPPLY CHAIN (2 OF 5)

- ▶ First, you are directed to the Labor Rights Category, you can choose from 4 other categories as well.
- ▶ Choose 5 Country-specific sectors to analyze risks for using the drop down arrows. (e.g., the first CSS would be Australia-Food Products below)

Multiple Issue Bar Charts :

[Labor rights](#) | [Health & Safety](#) | [Human rights](#) | [Governance](#) | [Community](#)

Analyzing Supply Chain Risks for Multiple Issues in "Labor Rights & Decent Work"

Choose Five Country-specific Sectors (CSS) to investigate

Country 1	<input type="text" value="Australia"/>	Sector 1	<input type="text" value="Food products nec"/>
Country 2	<input type="text" value="Brazil"/>	Sector 2	<input type="text" value="Air transport"/>
Country 3	<input type="text" value="China"/>	Sector 3	<input type="text" value="Metal products"/>
Country 4	<input type="text" value="Vietnam"/>	Sector 4	<input type="text" value="Wearing apparel"/>
Country 5	<input type="text" value="Indonesia"/>	Sector 5	<input type="text" value="Vegetables, fruit, nuts"/>

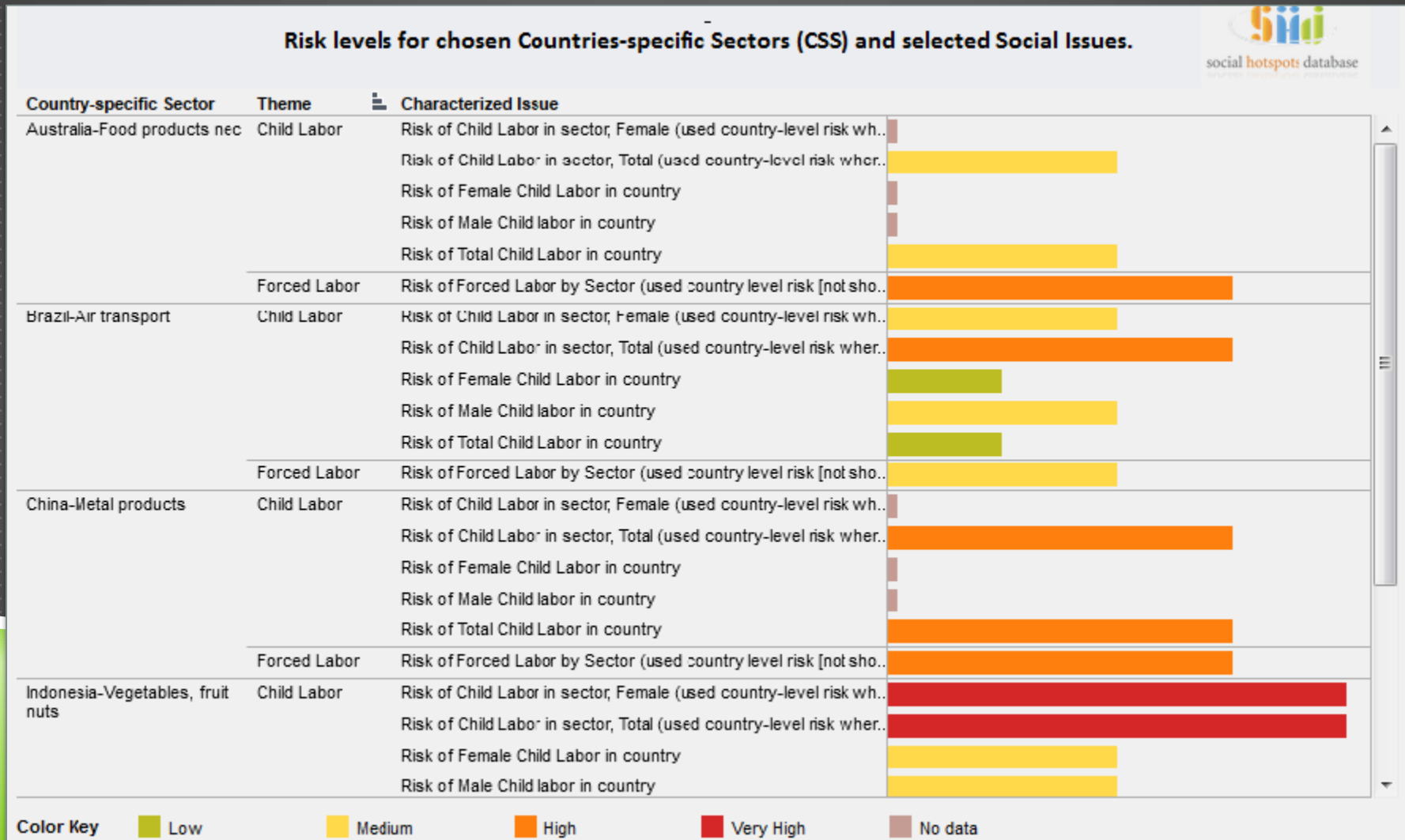
2. MULTIPLE ISSUES IN SUPPLY CHAIN (3 OF 5)

- ▶ Once the Category and CSS are chosen, you will be directed to the interactive visualization
- ▶ Here you are able to select Themes within the Category and choose as many Social Issues that are of interest to you (only the issues that are within the chosen themes show up).

Choose one or more Themes	Choose one or more Issues
Labor Rights Themes <ul style="list-style-type: none"><input type="checkbox"/> (All)<input checked="" type="checkbox"/> Child Labor<input checked="" type="checkbox"/> Forced Labor<input type="checkbox"/> Freedom of Association, Collective Bargaining, and Right to Strike<input type="checkbox"/> Labor Laws<input type="checkbox"/> Migrant Workers<input type="checkbox"/> Poverty<input type="checkbox"/> Unemployment<input type="checkbox"/> Wage Assessment<input type="checkbox"/> Working Time	Labor Rights Issues <ul style="list-style-type: none"><input type="checkbox"/> (All)<input type="checkbox"/> Characterization of ILO's Forced Labor Regional Estimates<input type="checkbox"/> Characterization of U.S. DOL's Trafficking in Person's Forced Labor Tiers<input checked="" type="checkbox"/> Risk of Child Labor in sector, Female (used country-level risk where no sector data ...)<input type="checkbox"/> Risk of Child Labor in sector, Male (used country-level risk where no sector data wa...)<input checked="" type="checkbox"/> Risk of Child Labor in sector, Total (used country-level risk where no sector data wa...)<input checked="" type="checkbox"/> Risk of Female Child Labor in country<input checked="" type="checkbox"/> Risk of Forced Labor by Sector (used country level risk [not shown] if no sector dat...)<input type="checkbox"/> Risk of Forced Labor in Country according to Qualitative Sources<input checked="" type="checkbox"/> Risk of Male Child labor in country<input checked="" type="checkbox"/> Risk of Total Child Labor in country

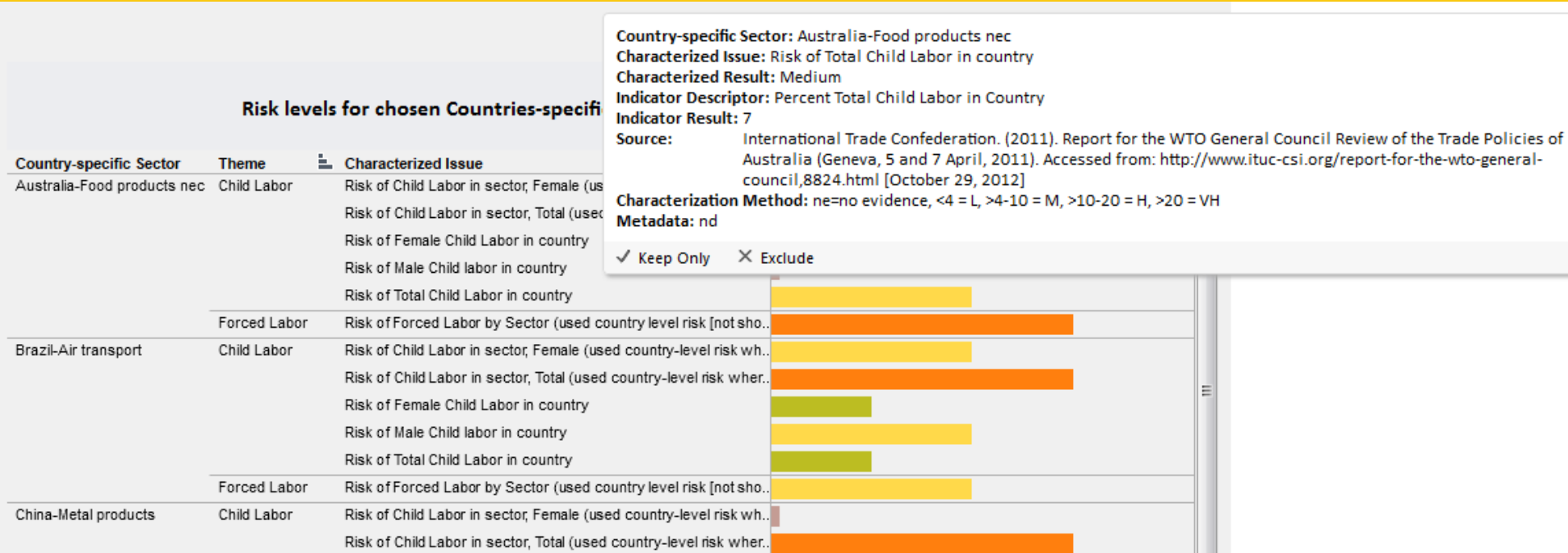
2. MULTIPLE ISSUES IN SUPPLY CHAIN (4 OF 5)

- ▶ The risks for the chosen issues are shown in a bar chart for the five selected CSS. A color legend is shown for risk levels.



2. MULTIPLE ISSUES IN SUPPLY CHAIN (4 OF 5)

- By panning the mouse over the bars in the bar chart the metadata for that particular risk issue and CSS appears



- By clicking on the icon circled below, you can download a pdf or image of the risk map. Also, directions on how to use the page are available below the visualization.

HOW TO USE THIS PAGE: On this page you can look at the risk data for an unlimited number of issues for 5 Country-specific sectors in a supply chain. First choose the 5 countries and sectors of interest. Then, select one or more Social Theme(s) of interest. From there, you can select multiple issues to view the risks for. By panning over the bars in the chart, you can view the metadata for how the risk level was determined.



3. SOCIAL HOTSPOT INDEX (1 OF 4)

- If you choose the third of the three capabilities, you will be redirected to the visualization that incorporates the Social Hotspot Index.

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The portal currently has three main capabilities, please select one:

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2. **Multiple Issue Bar Charts:** Analyze risks for multiple issues in a supply chain for selected country-specific sectors
3. **Social Hotspot Index:** Compare the Social Hotspot Indexes for country-specific sectors and identify the major contributing themes within a category

3. SOCIAL HOTSPOT INDEX (1 OF 4)

- ▶ Choose 5 Country-specific sectors to analyze risks for using the drop down arrows. (e.g., the first CSS would be Albania-Food Products below)

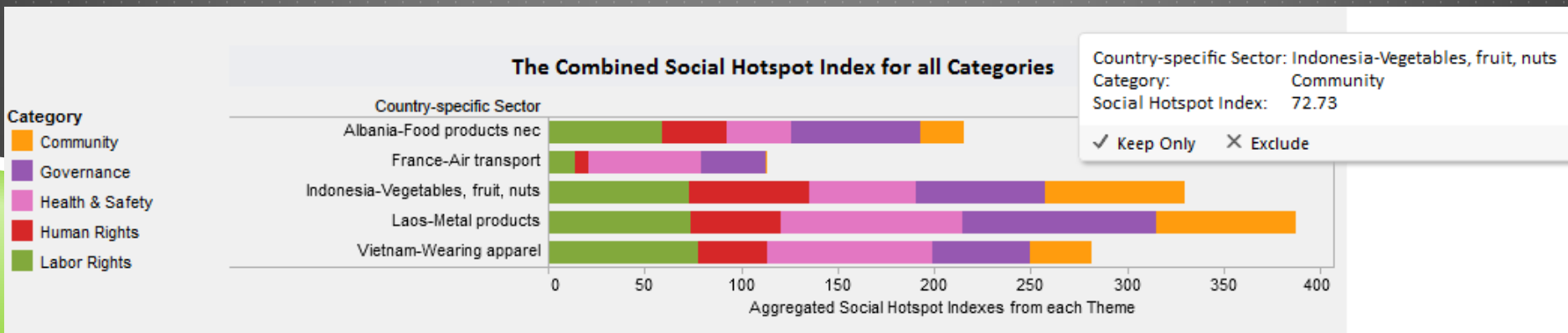
Social Hotspots Index by Category and Contributing Themes

Choose Five Country-specific Sectors (CSS) to investigate

Country 1	<input type="text" value="Albania"/>	Sector 1	<input type="text" value="Food products nec"/>
Country 2	<input type="text" value="France"/>	Sector 2	<input type="text" value="Air transport"/>
Country 3	<input type="text" value="Laos"/>	Sector 3	<input type="text" value="Metal products"/>
Country 4	<input type="text" value="Vietnam"/>	Sector 4	<input type="text" value="Wearing apparel"/>
Country 5	<input type="text" value="Indonesia"/>	Sector 5	<input type="text" value="Vegetables, fruit, nuts"/>

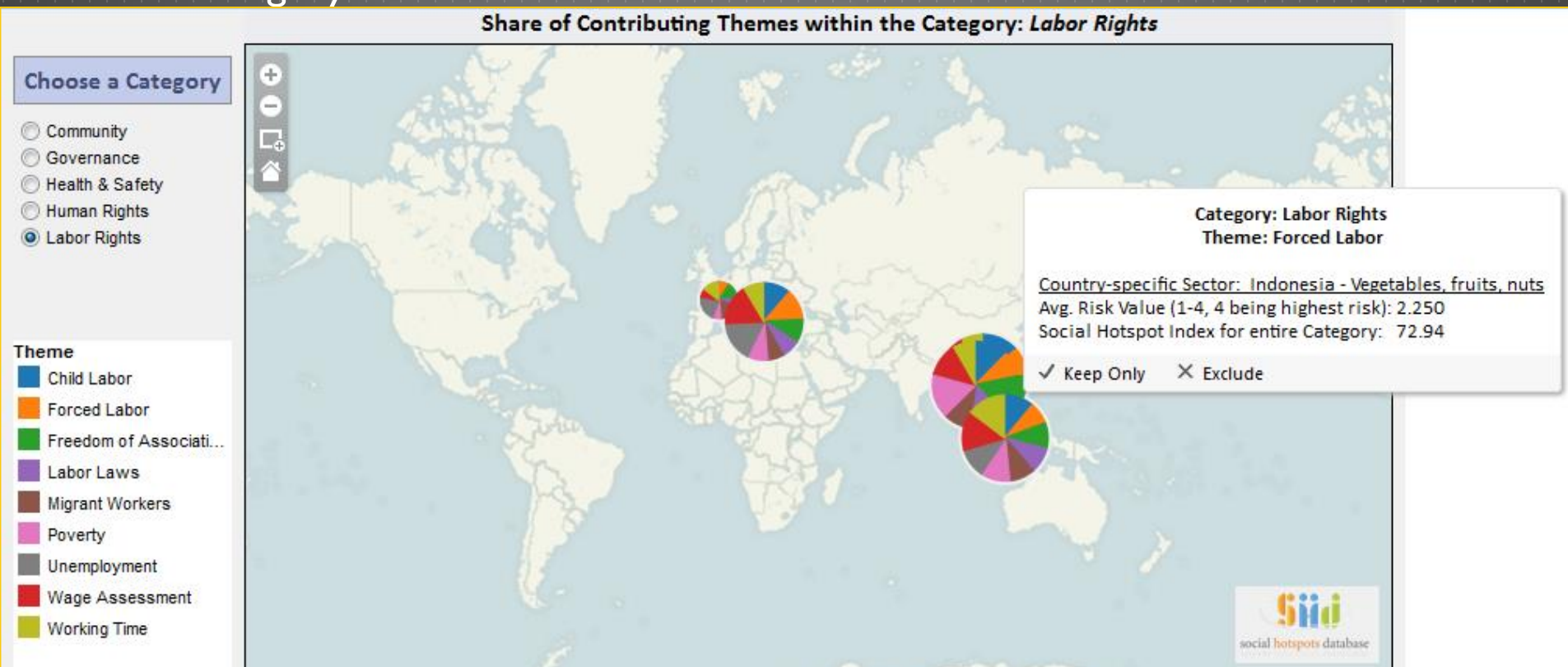
3. SOCIAL HOTSPOT INDEX (2 OF 4)

- ▶ Once you choose 5 CSS, you will be directed to the interactive visualization.
- ▶ A bar chart shows the SHI for each of the 5 Social Impact Categories for each of the user chosen CSS.
- ▶ Pan the mouse over each color in the bar chart to see the Category SHI values
- ▶ The sum of the 5 SHI's is comparable as long as there is data for each category. One way to check is to select the category in the map below and see if a pie shows up for that CSS.



3. SOCIAL HOTSPOT INDEX (3 OF 4)

- ▶ To use the map below the bar chart, choose a category. A pie will appear on top of each country from the five CSS if there is available data. A larger pie indicates a greater SHI (more risk).
- ▶ The pie wedges show the Themes that contribute most to the SHI in a category.
- ▶ Pan over the wedge to see the average risk for all indicators in the Theme and the Category SHI.



3. SOCIAL HOTSPOT INDEX (4 OF 4)

- ▶ By clicking on the icon circled below, you can download a pdf or image of the risk map. Also, directions on how to use the page are available below the visualization.

HOW TO USE THIS PAGE: After choosing the Country-specific Sectors (CSS) of interest, you can view the Social Hotspot Indexes (SHI) for each category. By panning over the bar chart's colored partitions, a pop-up displays the individual indexes. The aggregate of all 5 categories may be used for comparison across CSS as long as data is available for all categories. Below the bar chart, choose a single category to view the themes that contribute to the SHI. By panning over the pie wedges, a pop-up will show the average risk for each theme within the category. The size of the pie represents the magnitude of the SHI; larger pies indicate a greater risk for social issues to be present in that category.



INTERACTIVE SHI – NEXT RELEASE

- ▶ In the next update of the SHDB Portal, the calculation of the SHI will become more user controlled.
- ▶ Currently, only a handful of indicator risks are used to calculate the Index (see next few slides).
- ▶ Before Summer 2013, users will have the ability to choose:
 - ▶ Specific indicators to be included or left out of the calculation
 - ▶ Weights to the indicators/themes so that the most important issues are weighted more heavily in the SHI.

CURRENT SHI CALCULATION

$$SHI_{Cat} = \frac{\sum_{T=1}^n (R_{avg} * W_T)}{\sum_{T=1}^n (R_{max} * W_T)}$$

SHI_{cat} = Social Hotspot Index for a Category (e.g., Labor Rights, Governance, etc.)

T = Theme (e.g., Child Labor, Freedom of Association Rights)

n = Number of Themes within a Category

R_{avg} = Average Risk across the Theme

R_{max} = Maximum Risk for a Theme

W_T = Weight assigned to Theme

ISSUES & WEIGHTS USED TO CALCULATE SHI

CATEGORY	THEME	ISSUE	WEIGHT
Labor Rights & Decent Work	Wage Assessment	Risk of Sector Ave Wage being lower than Country's Non-poverty Guideline	1.5
	Wage Assessment	Risk of Sector Ave Wage being lower than Country's Minimum Wage	1.5
	Poverty	Risk of Wages being under \$2 per day	1.5
	Forced Labor	Risk of Forced Labor by Sector (used country level risk [not shown] if no sector data was found)	1.5
	Child Labor	Risk of Child Labor in sector, Total (used country-level risk where no sector data was found)	1.5
	Working Time	Risk of excessive working time by sector (used country level risk [not shown] where no sector data exists)	1.5
	Freedom of Association, Collective Bargaining, and Right to Strike	Risk that a country lacks or does not enforce Freedom of Association rights	1.5
	Freedom of Association, Collective Bargaining, and Right to Strike	Risk that a country lacks or does not enforce Collective Bargaining rights	1.5
	Freedom of Association, Collective Bargaining, and Right to Strike	Risk that a country lacks or does not enforce the Right to Strike	1.5
	Migrant Workers	Risk that migrant workers are treated unfairly (based on qualitative literature review)	1

CATEGORY	THEME	ISSUE	WEIGHT
Health & Safety	Occupational Injuries & Deaths	Risk of non-fatal injuries by sector	1.5
	Occupational Injuries & Deaths	Risk of fatal injury by sector	1.5
	Occupational Toxics & Hazards	Risk of workplace noise exposure, both genders	1
	Occupational Toxics & Hazards	Risk of loss of life or death by exposure to carcinogens in occupation	1
	Occupational Toxics & Hazards	Risk of loss of life by airborne particulates in occupation	1
Human Rights	Indigenous Rights	Risk that indigenous people are negatively impacted at sector level	1.5
	High Conflict Zones	Overall Risk for High Conflict-increased if risk exists at sector level	1.5
	Gender Equity	Overall Risk of Gender Inequality in country	1.5
	Gender Equity	Risk of Gender inequality by Sector based on representation in the workforce	1
	Human Health - Non-communicable Diseases and other health risks	Risk of mortality from non-communicable diseases	1
	Human Health - Communicable Diseases	Risk of mortality from communicable diseases	1
Governance	Legal System	Risk of fragility in the legal system considering all indicators	1.5
	Corruption	Overall Risk of Corruption considering all indicators	1.5
Community Infrastructure	Access to Improved Drinking Water	Risk of no access to an Improved Source of Drinking Water	1.5
	Access to Improved Sanitation	Risk of no access to an Improved source of Sanitation	1.5
	Access to Hospital Beds	Risk that there are too few hospital beds to support population	1