

Data Quality Assurance

Specialist: Dr. Kailen Shantz (Head of Data)

Competence Jour Fixe | XDC Direct Access



Relevant Case Resources in the XDC Academy

Your Resources | Client Pain Point | The XDC Solution | Impact

Solving this case
can be supported by
the following resource
in our digital
XDC Academy:

The screenshot displays the 'Videokurse' section of the XDC Academy website. At the top, there's a navigation bar with 'Videokurse' and a button 'Alle Kurse'. Below this, a header reads 'EXKLUSIV FÜR DIRECT ACCESS MEMBER Videokurse zur XDC Anwendung'. Two video course thumbnails are featured. The first, 'Ensuring Appropriate Sector Benchmarking', is by Dr. Jacopo Pellegrino (CTO) and is part of the 'Direct Access Kurs' 'Sector Benchmarking'. The second, 'Einführung in den XDC Scenario Explorer', is by Hannah Helmke, Gründerin & CEO, and is part of the 'Direct Access Kurs' 'XDC Scenario Explorer'. Both thumbnails include a play button icon and the 'right°' logo.

Videokurse Alle Kurse

EXKLUSIV FÜR DIRECT ACCESS MEMBER
Videokurse zur XDC Anwendung

Ensuring Appropriate Sector Benchmarking
Specialist: Dr. Jacopo Pellegrino (CTO)
Competence Jour Fixe | XDC Direct Access

Direct Access Kurs Sector Benchmarking

Ensuring Appropriate Sector Benchmarking
Dr. Jacopo Pellegrino, CTO

Scenario Explorer
Ist mein Klimaziel 1.5°C konform?

Direct Access Kurs XDC Scenario Explorer

Einführung in den XDC Scenario Explorer
Hannah Helmke, Gründerin & CEO

The Company

right on target 1.5°C

Right° provides transparency on the climate impact of economic activities - plain & simple in °C. Our software and metrics enable stakeholders from the real economy, finance, and real estate to plot pathways to 1.5°C alignment.

Our pioneering X-Degree Compatibility (XDC) Model creates science-based 'temperature alignment' metrics that correspond directly to the goal of the Paris Agreement. That means, we guide your climate-related decisions with the best, most relevant science and data.

Selected Clients: Real Economy



Selected Clients: Finance



Selected Clients: Real Estate



right° Presence in the Media

Extraordinary Attention for our Systematic Approach

Business Insider



Calculate the Climate Impact of a Business Model

"It's not about making companies look bad, but (...) calculating how strongly the respective business model influences the climate."

ZDF



Consider Emissions in Relation to Solutions

"The new analysis model looks at CO₂ emissions in relation to possible solutions for the 1.5 degree target."

brand eins



Measure Climate Impact According to the Paris Agreement

"The Frankfurt-based start-up right° enables companies to measure their climate impact according to the logic of the Paris Agreement: in degrees Celsius."

FAZ



Transform Climate Issues into a Competitive Advantage

"If approached correctly, Europe's credibility on climate issues could become a competitive advantage for companies."

Handelsblatt



CO₂ Emissions Shouldn't be the Only Indicator

"The carbon footprint alone (cannot) be a yardstick for assessing sustainability efforts."

Die Zeit



The Sector Must Be Considered in the Climate Impact

"When evaluating the respective climate efforts, it is taken into account that not all sectors are able to reduce emissions to the same extent."

Nominierungen & Preise

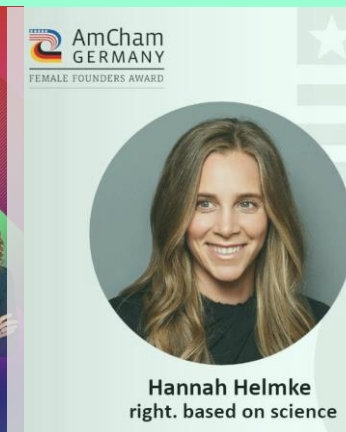
Extraordinary Attention for our Systematic Approach

Digital Female Leader 2023

Menschen des Jahres 2023

Female Founders Award 2023

Female Finance Award 2023



Next Economy Award | Change 2020

Portfolio Institutionell | Vordenker Award 2022

Stage Presence

Market Access through Large Stages

SEPT. 2023	Handelsblatt Tagung ESG-Reporting und -Steuerung
	Maschinenraum Momentum
	ZEIT WISSEN Kongress
JUL. 2023	Forum Bellevue zur Transformation der Gesellschaft
JUN. 2023	Deutscher Immobilitag (IVD)
	Konferenz ESG & Holzbau
MÄR. 2023	Süddeutsche Zeitung Nachhaltigkeitskongress
	Fachtagung Digitalisierung (VDW)



XDC Solutions

Our Model and Software

Software Solutions by right°

Your Resources | Client Pain Point | The XDC Solution | Impact

1

XDC Climate Impact Report: Status Quo.



Understand where your customer stands today.
Help them grasp the 1.5 °C ambition and
develop a vision.

2

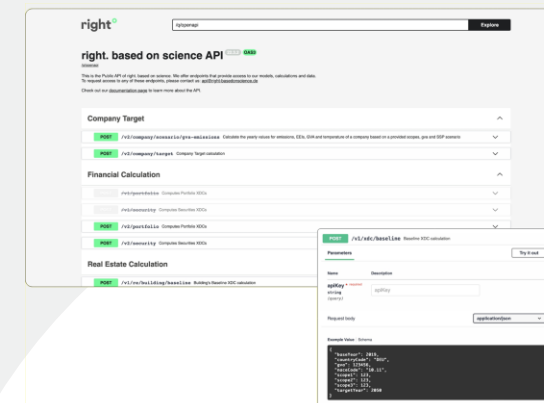
XDC Scenario Explorer: Scenario Analysis.



Apply your know-how of the XDC scenario
analysis to develop a Paris-aligned strategy
for your client.

3

XDC Public API: Integration.

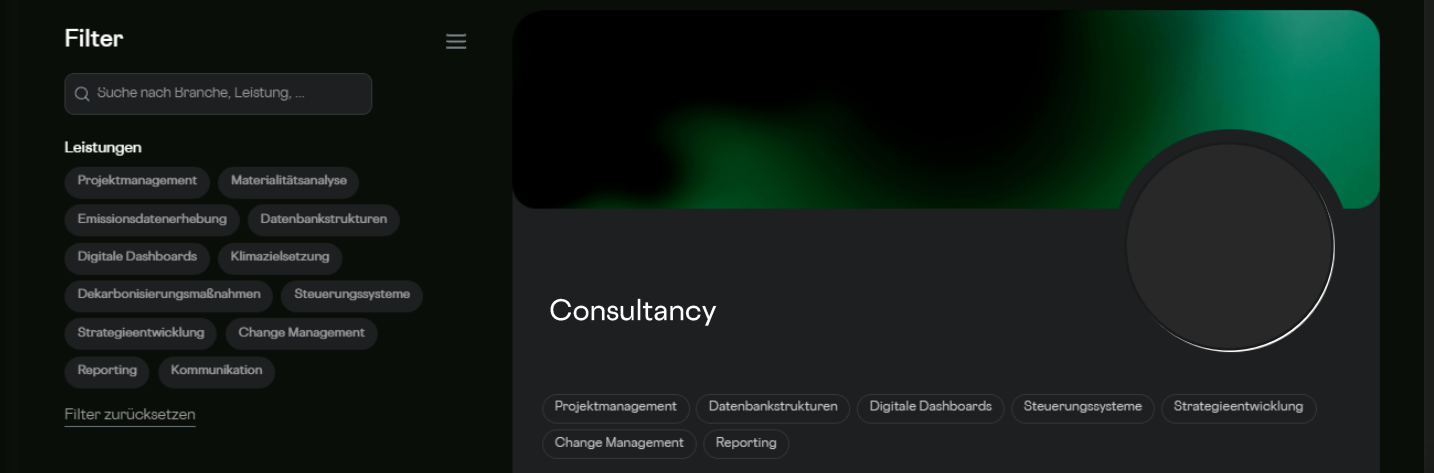


Develop a verifiable controlling model
for your client's transition pathway by
making complexity manageable.

The XDC Member Platform enables a completely **new collaboration model between right°** as an innovative climate tech company **and established consulting experts** to offer strong solutions.

Transitionspioniere in den besten Händen.


Nutzen Sie unsere einfachen Such- und Filterfunktionen, um den richtigen Berater für Ihre Transition zu finden.



XDC Direct Access Member Portal (right-basedonscience.de)

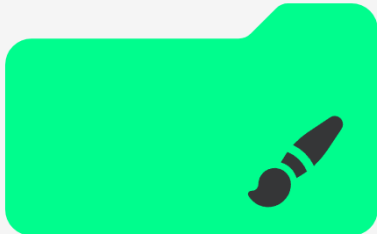
The XDC Academy is a **Toolbox for XDC users** to acquire knowledge and skills about the right° XDC model and learn to tackle climate-related challenges directly.

Ressourcen



Glossar


Finden Sie Definitionen zu wiederkehrenden Begrifflichkeiten, rund um right°, die XDC und unsere Produkte.



right° Brand Hub

Finden Sie Ressourcen bezüglich unserer Corporate Identity, wie Logos und markenspezifische Farbwerte sowie ein Tool zur Erstellung der XDC-Abbildungen


Videokurse



Dr. Sebastian Müller, LL.M.

Klimawirkung als Entscheidungskriterium für den Einkauf


Durch die Quantifizierung der Klimaziele und die Berechnung des Szenario-XDC lässt sich die Klimawirkung von Herstellern vergleichen und so ein echtes Entscheidungskriterium für den Einkauf schaffen.



Hannah Helmke

Einführung in den XDC Climate Impact Report

Der XDC Climate Impact Report ist das Einstiegsprodukt von right° und zeigt die Klimawirkung des Unternehmens im Status Quo sowie unter unternehmensspezifischen Szenarien.



Hannah Helmke

XDC vs. SBT - Gemeinsamkeiten und Unterschiede bei der Berechnung der Klimawirkung

In diesem Video geht es um die Gemeinsamkeiten und Unterschiede bei der Berechnung der Klimawirkung mit dem XDC Modell und den Methoden der Science Based Targets Initiative.

[Alle Kurse](#)

[XDC Academy \(right-basedonscience.de\)](https://right-basedonscience.de)

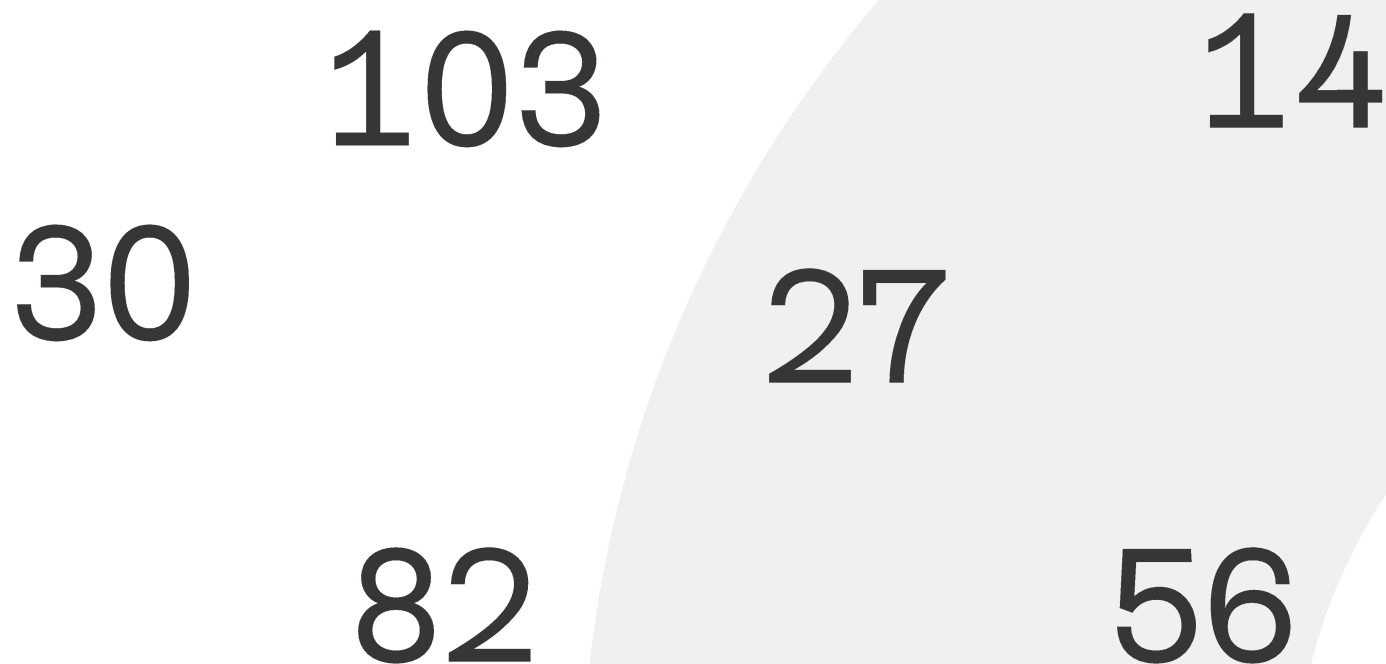
Understanding the Client Pain Point

Data Quality Assurance



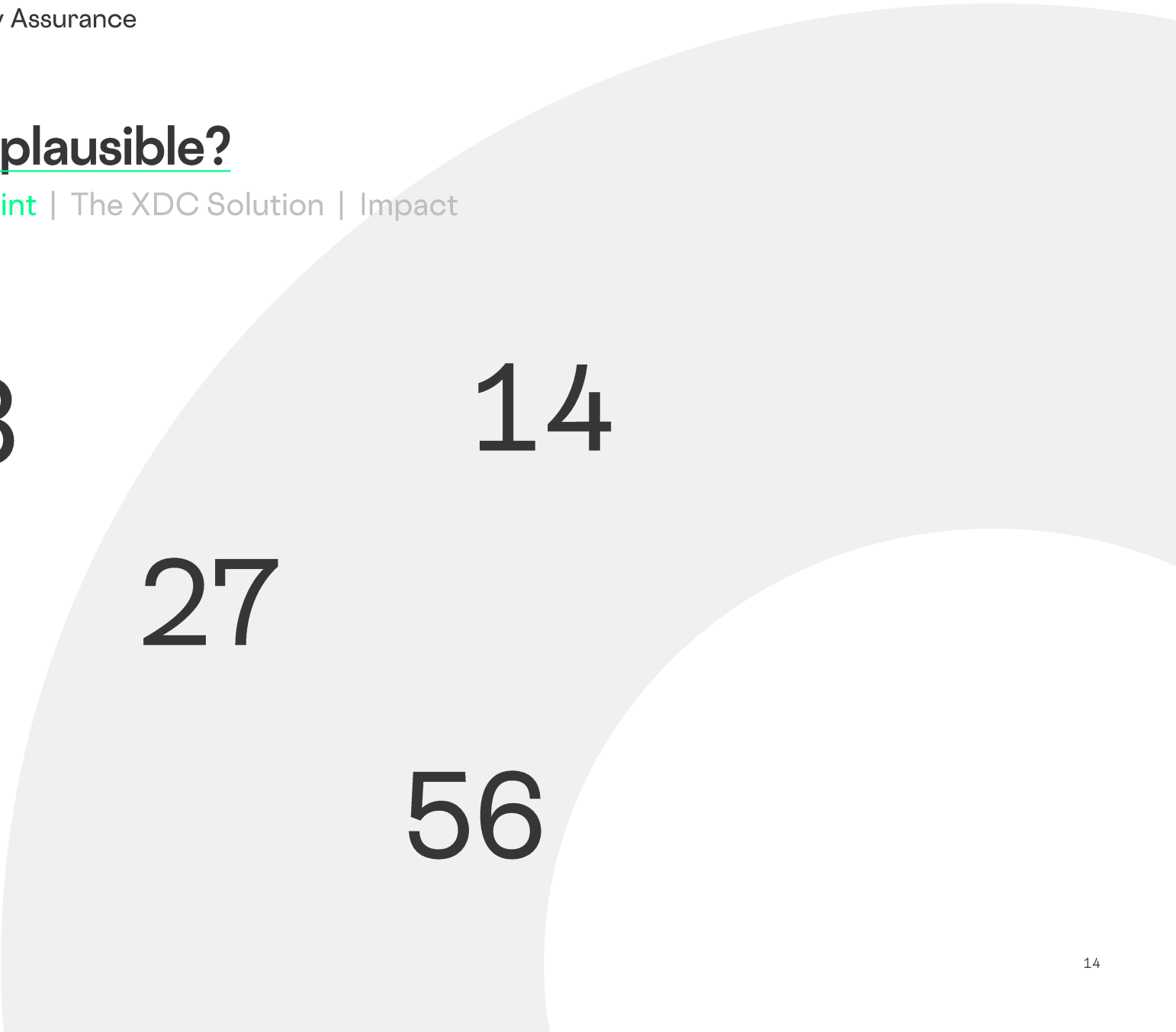
Introductory Example: Contextualizing Data

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact



Are these numbers plausible?

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact



103

14

30

27

82

56

Are these numbers plausible?

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

30 103 27 56 82

Depends on
the context!

Are these plausible values for the age of a person in years?

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

103 14
30 27
82 56

Are these plausible values for the age of a person in years?


Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

103 14
30 27
82 56

Yes

Are these plausible values for the population of Germany?

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact



103

14

30

27

82

56

Are these plausible values for the population of Germany?

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

103 14
30 27
82 56

No

Are these plausible values for Scope 1 emissions?

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

10.300

1.400.00

3.000

270.000

820

56

Are these plausible values for Scope 1 emissions?

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

10.300

1.400.00

Depends on
the context!

270.000

820

56

Relevance of Competency: Data Quality Assurance

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

Client Pain Point

Assess **whether the data used for XDC calculations are plausible**, thereby **increasing confidence in the validity of decisions** made based on the resulting XDC values.

Relevance

Using **accurate data is essential for achieving reliable model results in order to make valid decisions.**

Gain competence in **assessing client data and understanding when the accuracy of client-provided data should be explicitly assessed.**

The XDC Solution

Preparing for the **application of QA solutions by right° to assess the plausibility of client data with simple-to-use and reliable data visualizations.**

Relevance of Competency: Data Quality Assurance

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

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Relevance of Competency: Data Quality Assurance

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Understanding the Impact of Incorrect Data

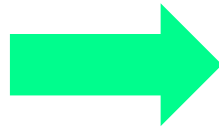
Data Quality Assurance



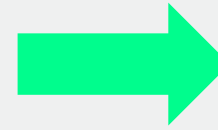
Understanding the Impact of Incorrect Data

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

Actual Scope 1
20.000 tCO₂eq



XDC
2,1°C




Status: Aligned / On Track

As a result of this XDC, your client might:

- › Communicate their targets externally, and
- › Assume their business model is fit for the future



Case A

No issues are evident in the data entry; data interpretation is correct. The company is actually performing well and on-track.

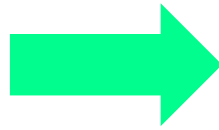


Understanding the Impact of Incorrect Data

Your Resources | **Client Pain Point** | The XDC Solution | Impact

Missing a 0

20.000 tCO₂eq



XDC

1,2 °C



Status: Sector Leader



As a result of this XDC, your client might:

- › Publish the results and use a narrative of such a low XDC, and
- › Develop a sustainability campaign positioning themselves as a “green leader”



Case B

There are issues in the data entry; although the data interpretation is correct. The company would actually have a higher XDC.



Understanding the Impact of Incorrect Data

Your Resources | [Client Pain Point](#) | The XDC Solution | Impact

Has an Extra 0
200.000 tCO₂eq



XDC
5,3 °C



Status: Not Aligned / Off Track



As a result of this XDC, your client might:

- › Escalate issues for sustainability internally, and
- › Cause investor-side scepticism if the XDC performance doesn't reflect what was reported



Case C

There are issues in the data entry; although the data interpretation is correct. The company would actually have a lower XDC.



right°

The XDC Solution

Data Quality Assurance



Plausibility Assessment of Input Data to Identify Suspicious Values

Data Quality Assurance

Identifying Suspicious Data at a Glance

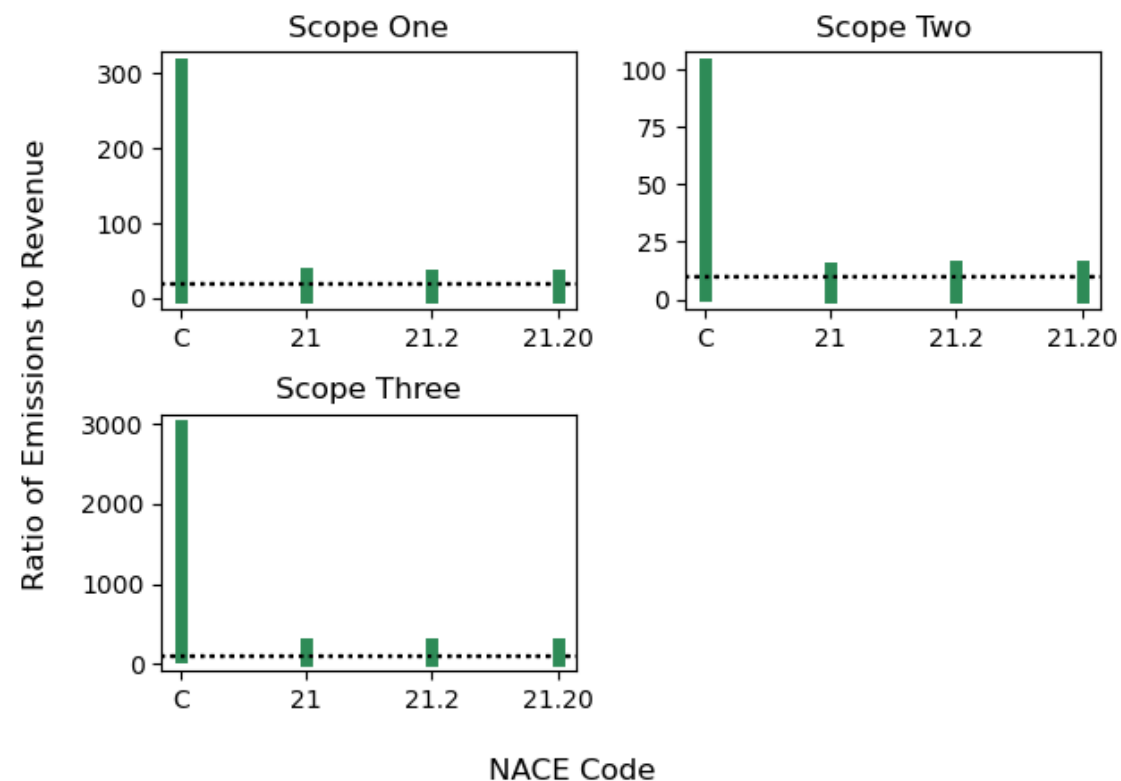
Your Resources | Client Pain Point | [The XDC Solution](#) | Impact



The Core Idea

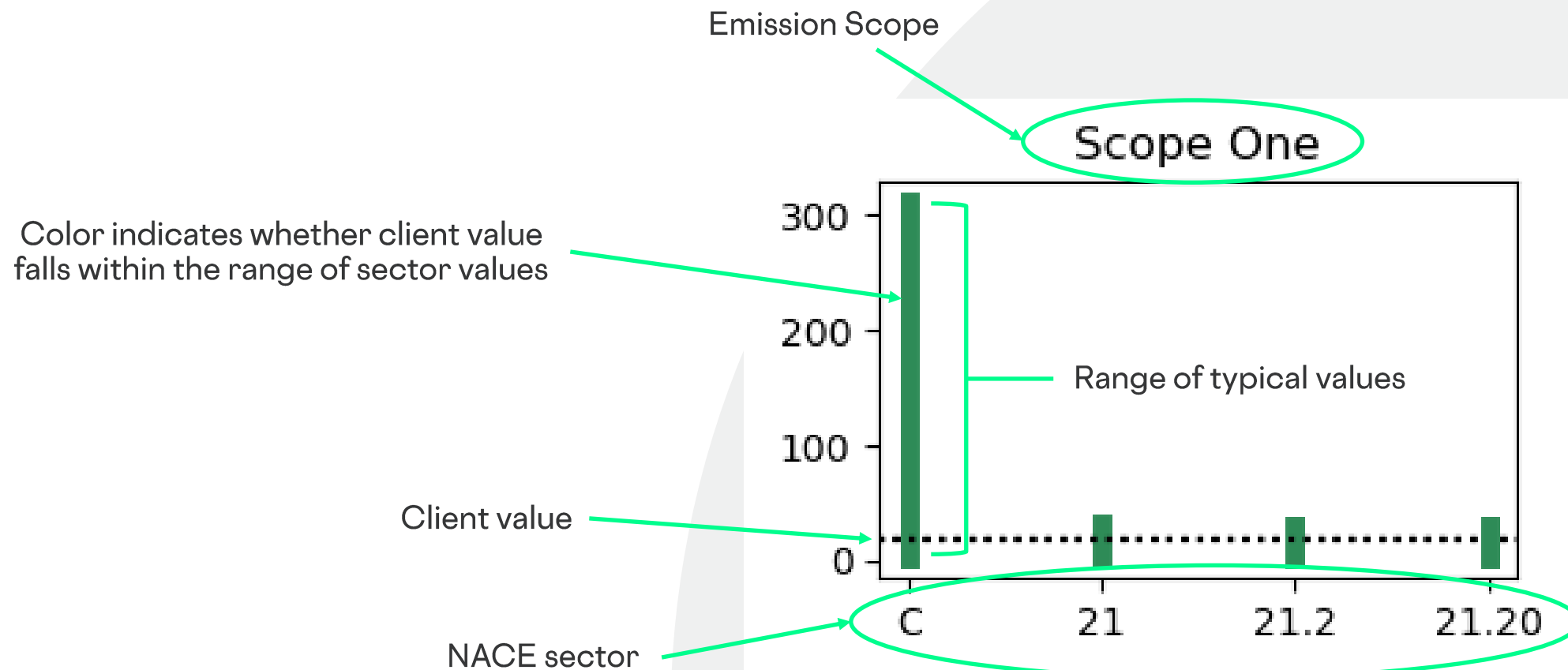
- Data are used to calculate metrics
- Compare client value to the sector norm:
 - For each level of NACE granularity
 - For each emission scope

Ratio of Emission to Revenue by Emission Scope and NACE level



Identifying Suspicious Data at a Glance

Your Resources | Client Pain Point | [The XDC Solution](#) | Impact

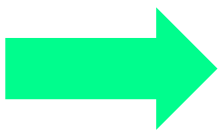


Identifying Suspicious Data at a Glance

Your Resources | Client Pain Point | The XDC Solution | Impact

Actual Scope 1

20.000 tCO₂eq



XDC

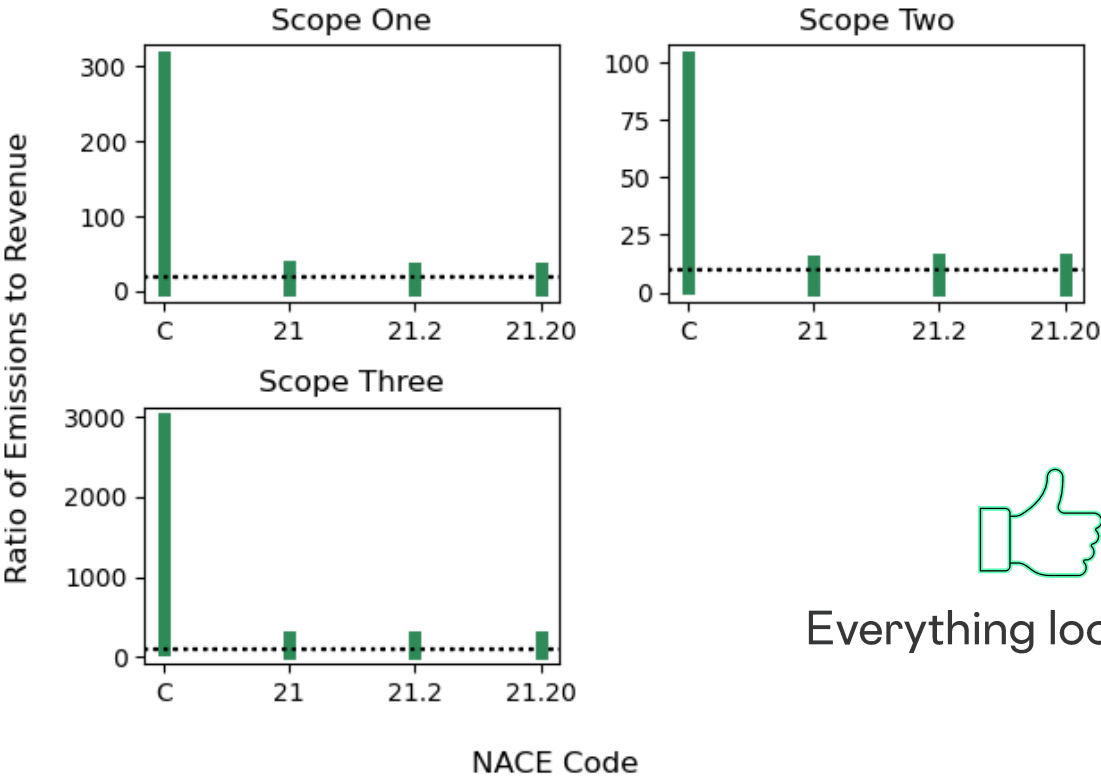
2,1°C



Case A

No issues are evident in the data entry; data interpretation is correct. The company is actually performing well and on-track.

Ratio of Emission to Revenue by Emission Scope and NACE level



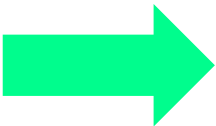
Everything looks good

Identifying Suspicious Data at a Glance

Your Resources | Client Pain Point | [The XDC Solution](#) | Impact

Missing a 0

20.000 tCO₂eq



XDC

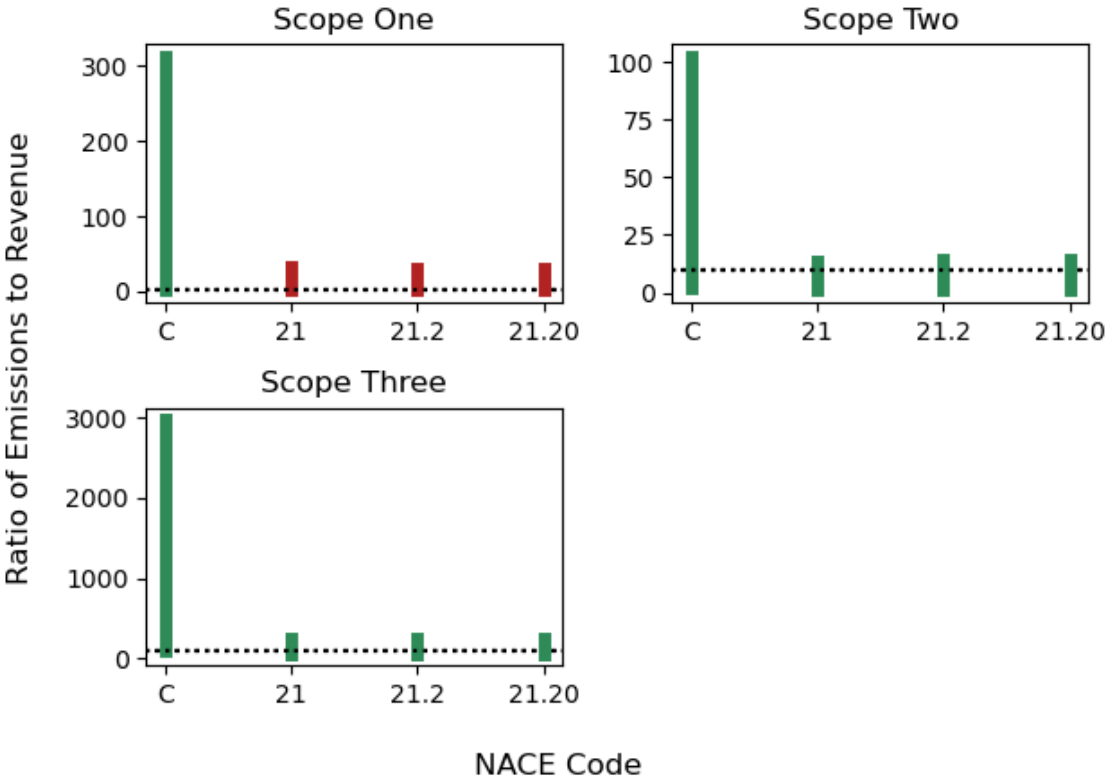
1,2 °C



Case B

There are issues in the data entry; although the data interpretation is correct. The company would actually have a higher XDC.

Ratio of Emission to Revenue by Emission Scope and NACE level

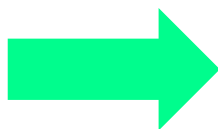


Identifying Suspicious Data at a Glance

Your Resources | Client Pain Point | [The XDC Solution](#) | Impact

Missing a 0

20.000 tCO₂eq



XDC

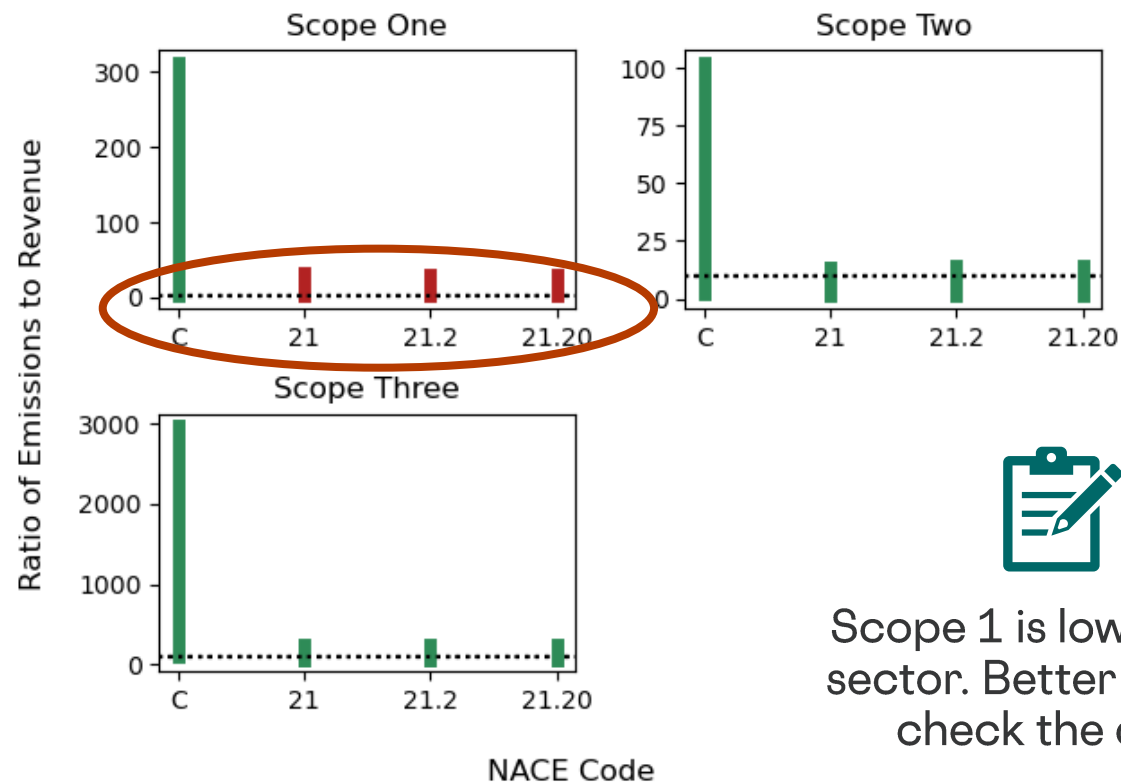
1,2 °C

!

Case B

There are issues in the data entry; although the data interpretation is correct. The company would actually have a higher XDC.

Ratio of Emission to Revenue by Emission Scope and NACE level



Scope 1 is low for the sector. Better double-check the data.

Identifying Suspicious Data at a Glance

Your Resources | Client Pain Point | [The XDC Solution](#) | Impact

Has an Extra 0

200.000 tCO₂eq



XDC

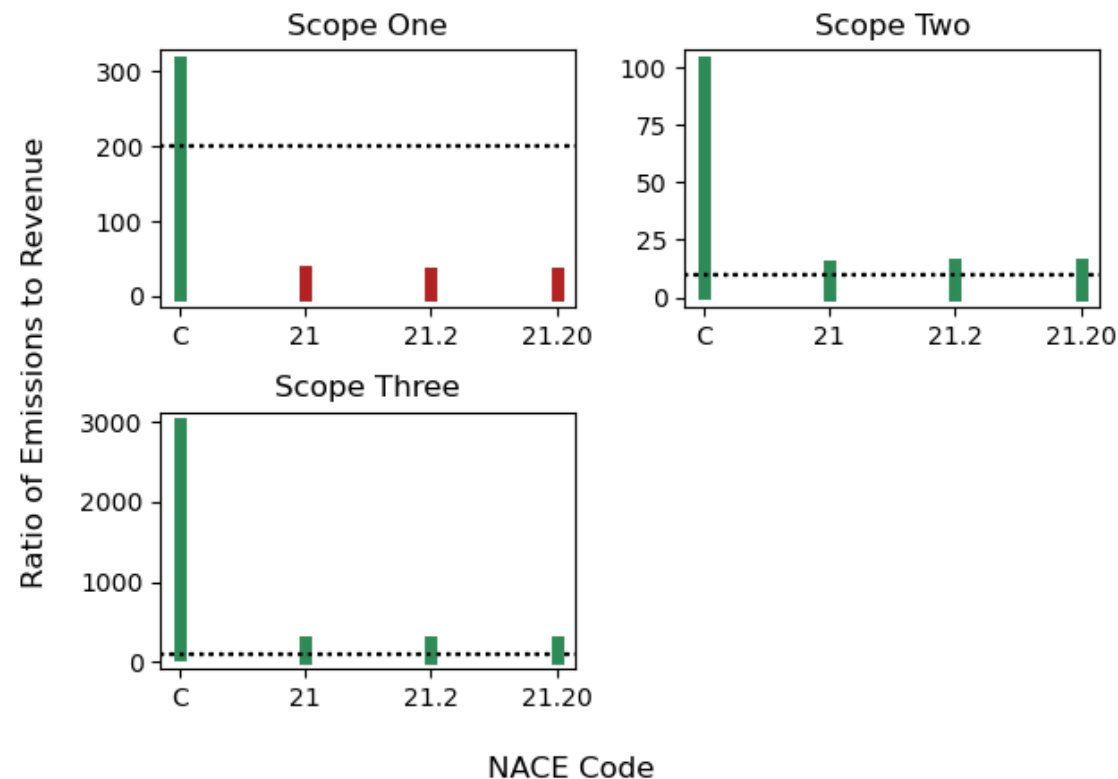
5,3 °C

!

Case C

There are issues in the data entry; although the data interpretation is correct. The company would actually have a lower XDC.

Ratio of Emission to Revenue by Emission Scope and NACE level



Identifying Suspicious Data at a Glance

Your Resources | Client Pain Point | [The XDC Solution](#) | Impact

Has an Extra 0

200.000 tCO₂eq



XDC

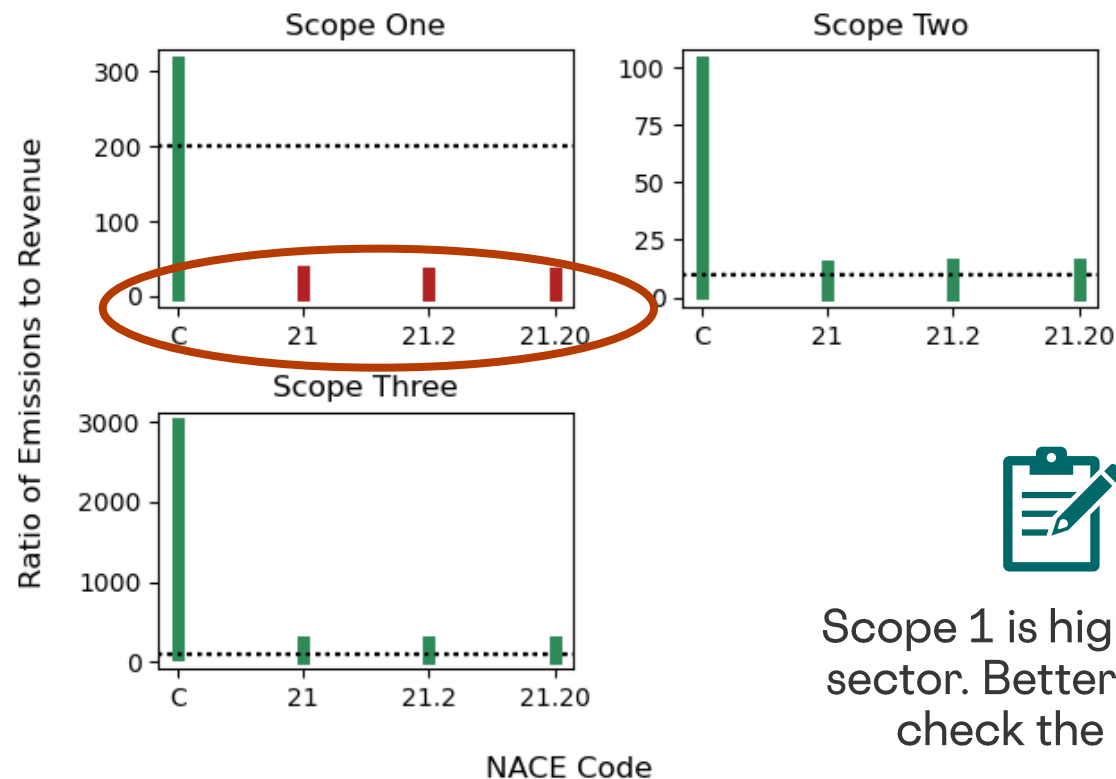
5,3 °C

!

Case C

There are issues in the data entry; although the data interpretation is correct. The company would actually have a lower XDC.

Ratio of Emission to Revenue by Emission Scope and NACE level



Scope 1 is high for the sector. Better double-check the data.

Applying the XDC Solution

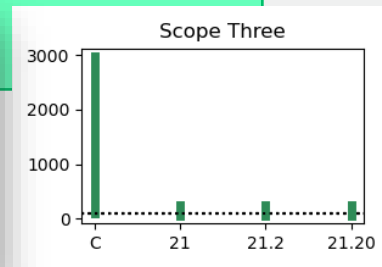
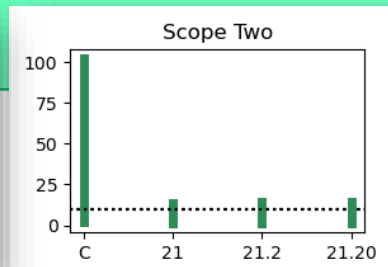
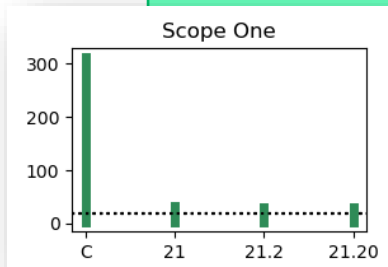
Reaching 1.5 °C with Green Growth

Solving the Pain Point with XDC

Your Resources | Client Pain Point | **The XDC Solution** | Impact

Applying our Solution for Quality Assurance

- › Enter data for a CIR as you normally would
- › Inspect QA charts provided by right°



Interpreting Quality Assurance with Plots

- › If all bars are green, proceed as normal.
- › If any bars are red, verify that data were entered accurately.
- › If data were entered accurately based on input you received, check with client to understand the data.

Q&A

to support your understanding



Contact

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