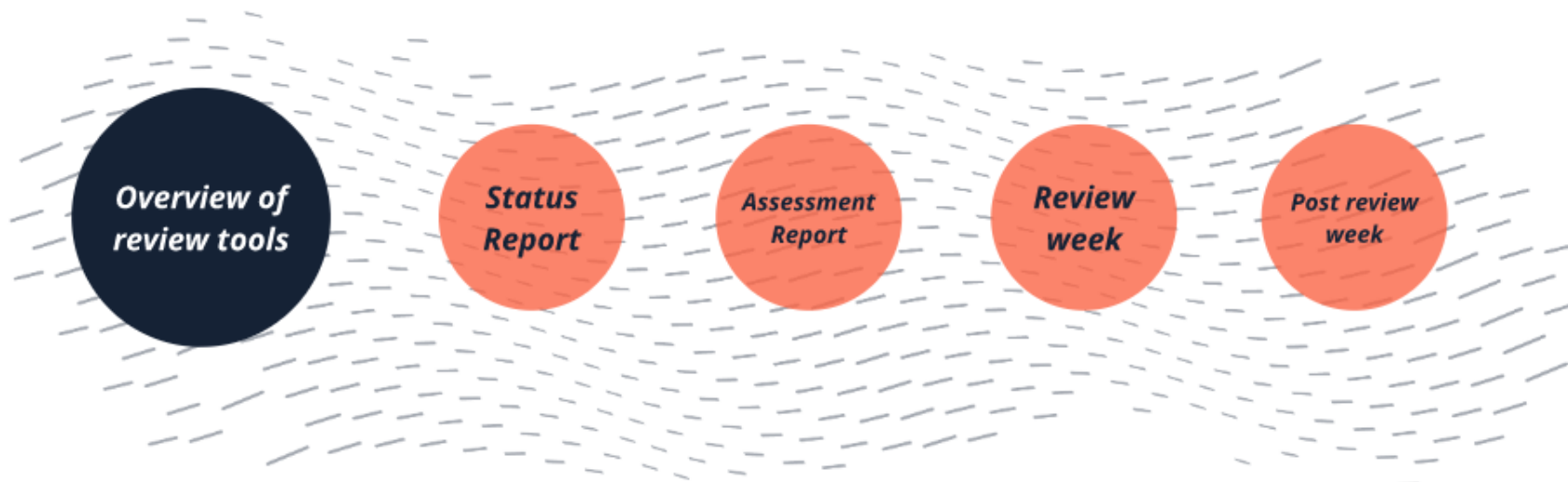


Review tools for 2017/2018

Overview of existing tools for GHG reviews



Overview of review tools

- Use official submitted information - CRF tables (one file/year) and layers of numerical data
- Support GHG inventory review process
- Provide easy, quick & comprehensive data accessibility
- Focus on important issues based on time and priority
- Reduce effort & time for experts and secretariat in preparing the reviews

***Tools vs
timeline***

Tools vs timeline

Parties

Official inventory submission in CRF Reporter - *April (max. May)*

Secretariat

Status Report & 7% tool & Aggregate GHG info - *June*

Assessment Report - *July*

Key Category Analysis - *July*

Statistical Outlier Detection Tool (SODT) - *July*

Locator - *July*

Experts

Locator - *August-November*

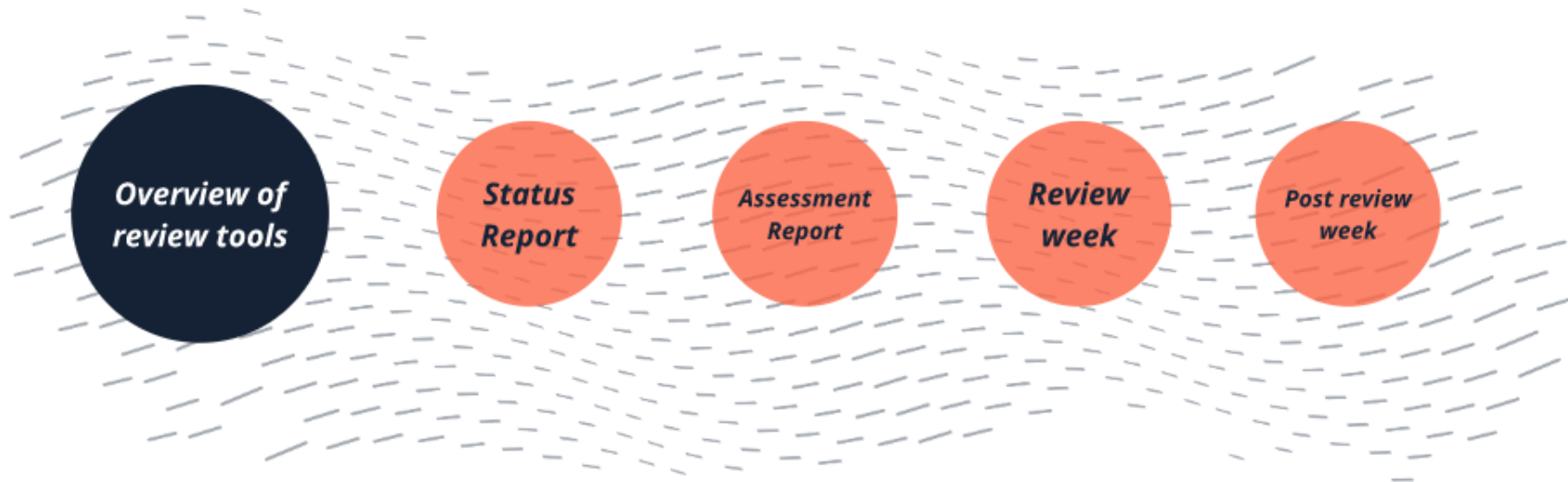
Comparison Tool - *September-February**

2% tool for desk reviews - *September-November*



Review tools for 2017/2018

Overview of existing tools for GHG reviews



Status Report

- First deliverable in the process
- Mechanical completeness check of inventory submissions
- Using the 7% tool
- Report published after giving opportunity for Party to comment
- All reports prepared by the secretariat in May-June

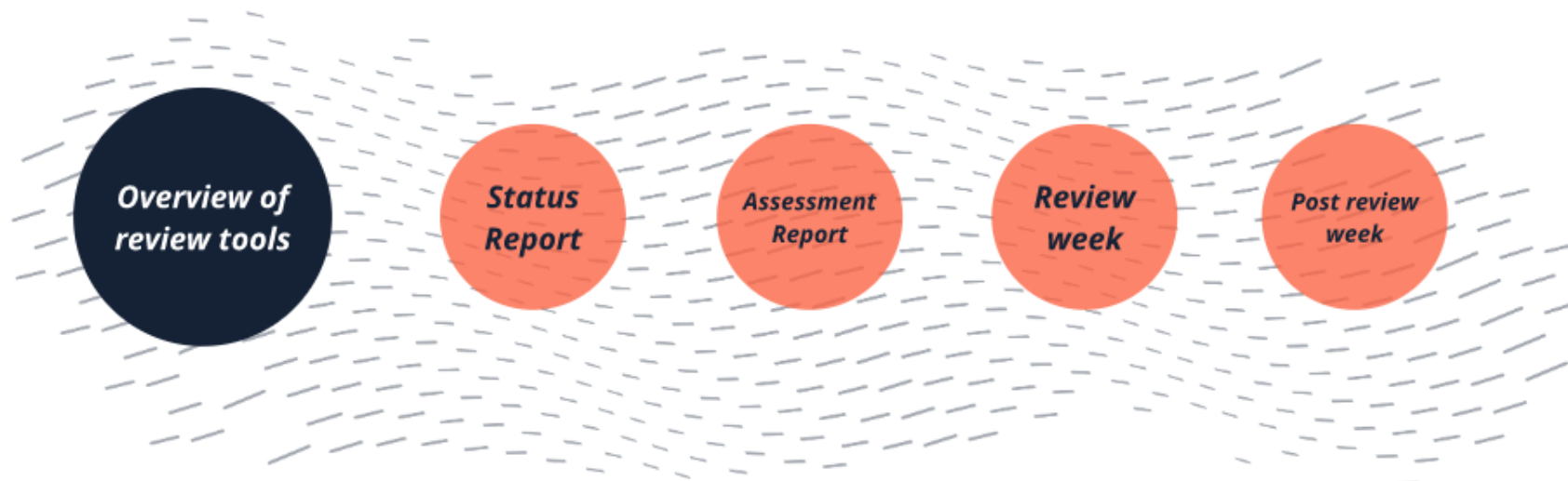
Inventory of Parties' Submissions									
Party	Year	Submission	Comments	Year	Submission	Comments	Year	Submission	Comments
Algeria	2010	1		2011	1		2012	1	
Algeria	2010	2		2011	2		2012	2	
Algeria	2010	3		2011	3		2012	3	
Algeria	2010	4		2011	4		2012	4	
Algeria	2010	5		2011	5		2012	5	
Algeria	2010	6		2011	6		2012	6	
Algeria	2010	7		2011	7		2012	7	
Algeria	2010	8		2011	8		2012	8	
Algeria	2010	9		2011	9		2012	9	
Algeria	2010	10		2011	10		2012	10	

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Algeria	2010	4		2011	4		2012	4	
Algeria	2010	5		2011	5		2012	5	
Algeria	2010	6		2011	6		2012	6	
Algeria	2010	7		2011	7		2012	7	
Algeria	2010	8		2011	8		2012	8	
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Algeria	2010	10		2011	10		2012	10	

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Algeria	2010	4		2011	4		2012	4	
Algeria	2010	5		2011	5		2012	5	
Algeria	2010	6		2011	6		2012	6	
Algeria	2010	7		2011	7		2012	7	
Algeria	2010	8		2011	8		2012	8	
Algeria	2010	9		2011	9		2012	9	
Algeria	2010	10		2011	10		2012	10	

Review tools for 2017/2018

Overview of existing tools for GHG reviews



Assessment Report

- Second deliverable in the process
- Excel file comprised of 14 worksheets
- ARs prepared by secretariat (review officers) in July
- AR includes
 - substantive issues carried over from previous ARR
 - new issues detected with review tools & review officers' expertise
 - qualitative analysis from IEA
- AR sent out to Party for providing answers to issues identified

Completeness, Irregularities & Inconsistencies

Case	Case ID	Case Name	Case Description	Case Status	Case Type	Case Category	Case Subcategory
1	10000000000000000000	Case 1	Case 1 Description	Case 1 Status	Case 1 Type	Case 1 Category	Case 1 Subcategory
2	10000000000000000000	Case 2	Case 2 Description	Case 2 Status	Case 2 Type	Case 2 Category	Case 2 Subcategory
3	10000000000000000000	Case 3	Case 3 Description	Case 3 Status	Case 3 Type	Case 3 Category	Case 3 Subcategory
4	10000000000000000000	Case 4	Case 4 Description	Case 4 Status	Case 4 Type	Case 4 Category	Case 4 Subcategory
5	10000000000000000000	Case 5	Case 5 Description	Case 5 Status	Case 5 Type	Case 5 Category	Case 5 Subcategory
6	10000000000000000000	Case 6	Case 6 Description	Case 6 Status	Case 6 Type	Case 6 Category	Case 6 Subcategory
7	10000000000000000000	Case 7	Case 7 Description	Case 7 Status	Case 7 Type	Case 7 Category	Case 7 Subcategory
8	10000000000000000000	Case 8	Case 8 Description	Case 8 Status	Case 8 Type	Case 8 Category	Case 8 Subcategory
9	10000000000000000000	Case 9	Case 9 Description	Case 9 Status	Case 9 Type	Case 9 Category	Case 9 Subcategory
10	10000000000000000000	Case 10	Case 10 Description	Case 10 Status	Case 10 Type	Case 10 Category	Case 10 Subcategory

[illegible]

Completeness, Irregularities & Inconsistencies

- Locator - information on reported notation keys: NE, NO, NA, IE, C
- KCA (Key Category Analysis) - prioritize work considering the number of categories (source / sinks)
- SODT (statistical outlier detection tool) - detects irregularities based on several criteria
 - IPCC default range
 - inter-annual changes
 - across Parties reporting

Table 1: Locator - information on reported notation keys

Party	Category	Parameter	Unit	NE	NO	NA	IE	C
...	...	...	...	...	...	...	...	...

Table 2: KCA (Key Category Analysis) - prioritize work considering the number of categories (source / sinks)

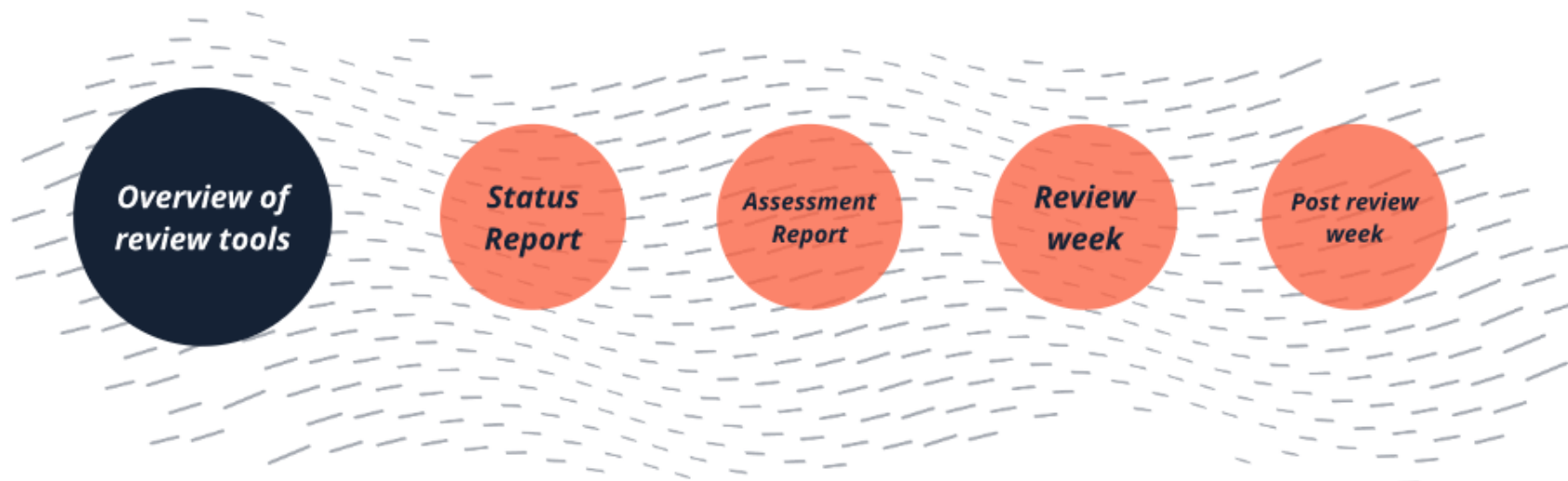
Party	Category	Parameter	Unit	NE	NO	NA	IE	C
...	...	...	...	...	...	...	...	...

Table 3: SODT (statistical outlier detection tool) - detects irregularities based on several criteria

Party	Category	Parameter	Unit	NE	NO	NA	IE	C
...	...	...	...	...	...	...	...	...

Review tools for 2017/2018

Overview of existing tools for GHG reviews



Review week

- Demand for data analysis is high based on the intensive ERT workload
- Locator
- 2% tool (for desk reviews)
- Comparison Tool & SCOT (also possible)
- iVTR - communication tool

Locator

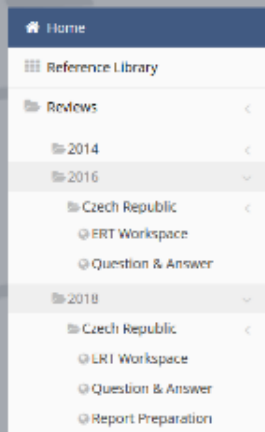
iVTR

Locator

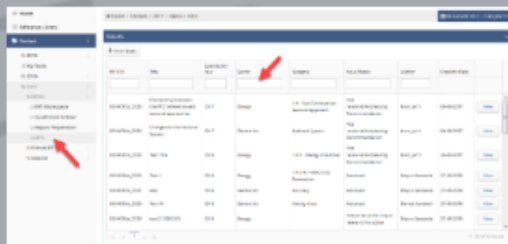
- most known and used review tool
- provides all parameters submitted by Parties in the CRF Reporter
- currently offline tool with downloadable database



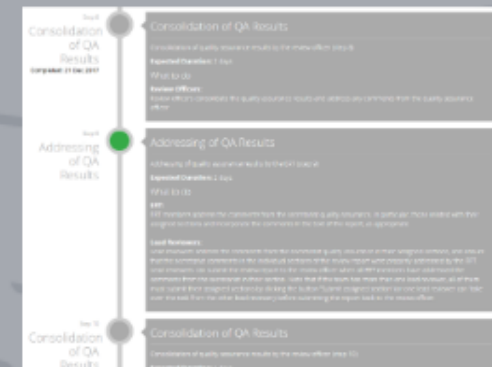
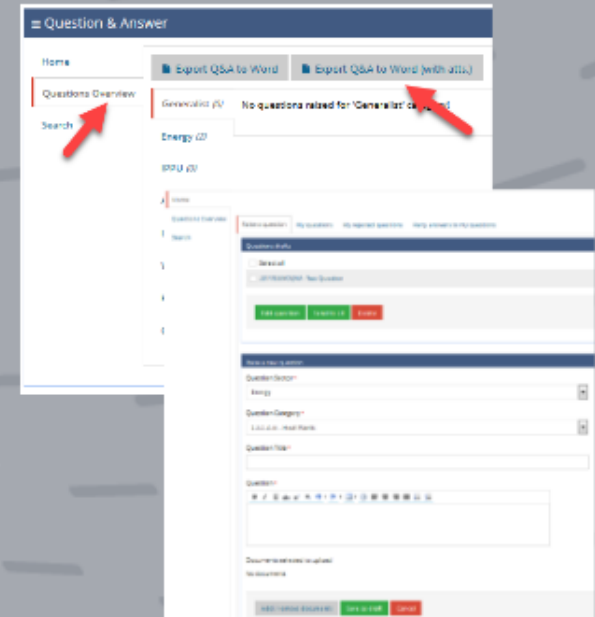
iVTR



- displays all review related info in one place
- provides a space for ERT to share documents
- allows ERT to ask questions to Parties
- provides a space for Parties to respond to ERT questions before or during the review week
- works as a database of identified issues (RITS)

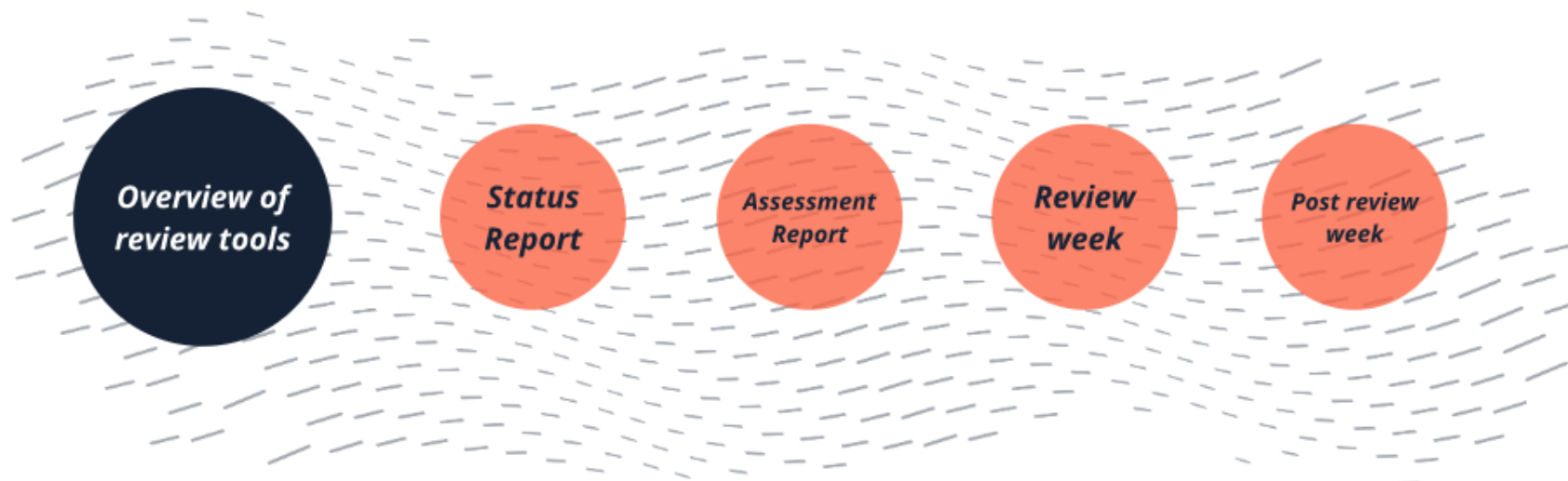


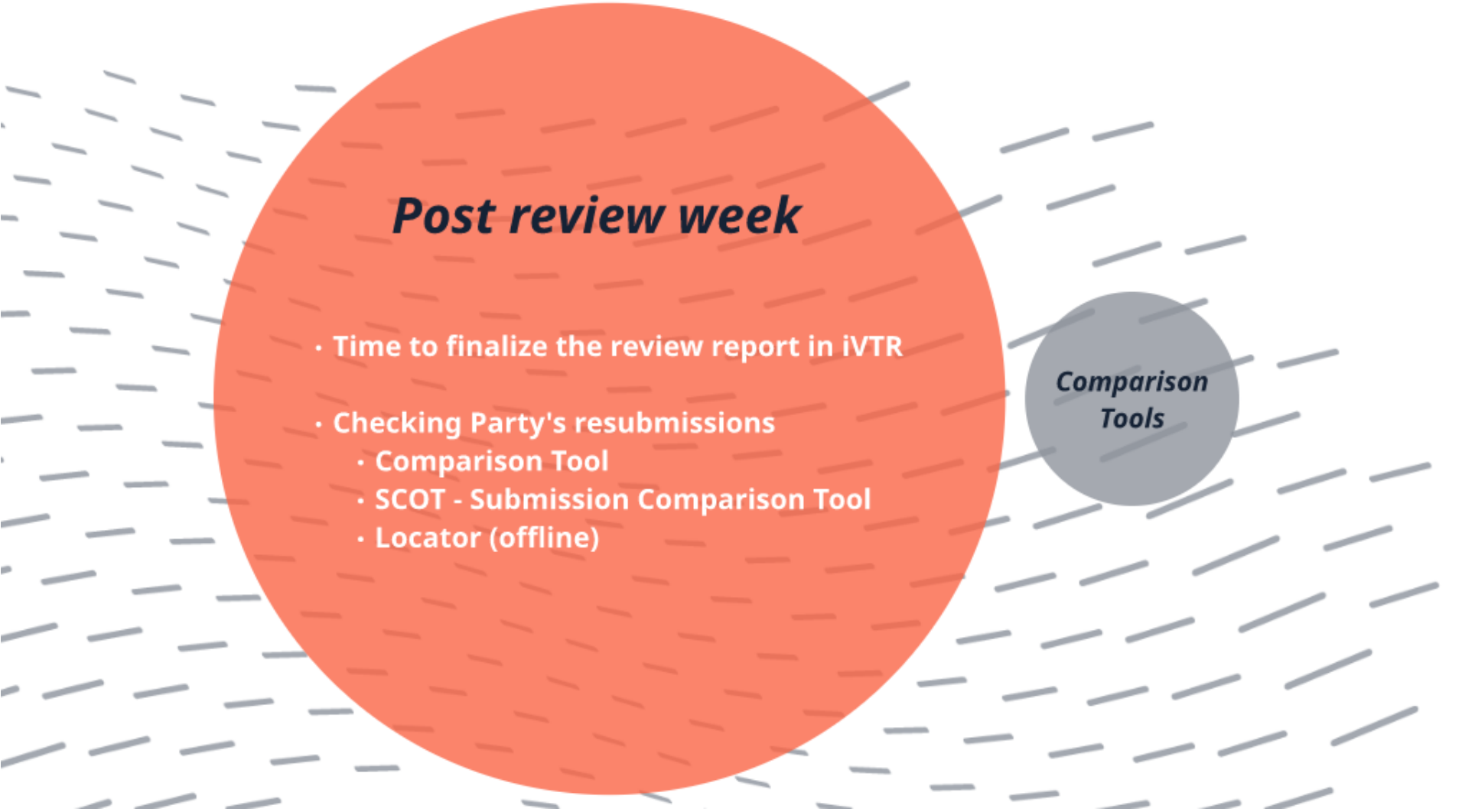
- allows LR/experts to work collaboratively in the review report
- allows tracking in the report preparation workflow



Review tools for 2017/2018

Overview of existing tools for GHG reviews





Post review week

- Time to finalize the review report in iVTR
- Checking Party's resubmissions
 - Comparison Tool
 - SCOT - Submission Comparison Tool
 - Locator (offline)

***Comparison
Tools***

Comparison Tools

UNFCCC Review Comparison Tool

Party: Iceland | Submission: GL 2017 v5 v6 | Country year: All years | Emissions: All values | [EXPORT TBL SERIES](#)

Sectors/Tables

- 1. Energy
- 2. Industrial Processes and Product Use
- 3. Agriculture
 - 3.1 Livestock
 - 3.1.1 Enteric Fermentation
 - 3.1.1.1 Cattle
 - 3.1.1.2 Sheep
 - 3.1.2 Manure Management
 - 3.1.3 CH₄ Emissions
 - 3.1.3.1 Sheep
 - 3.1.3.2 N₂O and NMVOC Emissions

Filter

Enteric Fermentation[Cattle]Implied emission factor[CH₄]kg/head/year

Enteric Fermentation[Cattle]Emissions[CH₄]t

With Emission	Base year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
GL 2017 v5	3.91	3.91	3.88	4.10	4.05	4.01	4.03	4.12	3.92	3.97	3.94	3.84	3.79	3.69	3.63	3.57	3.62
GL 2017 v6	4.24	4.24	4.20	4.42	4.39	4.34	4.37	4.47	4.24	4.28	4.26	4.17	4.11	4.00	3.92	3.87	3.90
Revised - first	0.00	0.33	0.35	0.34	0.34	0.33	0.34	0.35	0.32	0.33	0.32	0.30	0.30	0.31	0.29	0.33	0.31
Relative to first	0.00%	0.60%	0.70%	0.28%	0.40%	0.21%	0.60%	0.45%	0.18%	0.37%	0.12%	0.30%	0.60%	0.43%	7.30%	0.43%	0.94%

- Submission Comparison Tool

- Comparison Tool
 - revised online tool
 - to be used in 2018 reviews
 - based on the new Locator interface

Review tools for 2017/2018

Overview of existing tools for GHG reviews

