

Cooperation feature	Categorical values			Indicator	Original data	Original sources	Node data + method of analysis
	Adaptive	Plan-oriented	Institutional				
Skills	<i>Experimental</i>	<i>Academic-expert</i>	<i>Procedural</i>	Skill type	Words to identify for every user and classify according to feature categories.	Message content	The nature of the skills either featured in the document or that were necessary to make the document.
Cultural Diversity	<i>Cultural mix</i>	<i>Pluricultural</i>	<i>Unique</i>	Diversity score	Number of disciplines for every user expertise in the project.	Profile page	The cultural diversity (namely the number of languages and the origins of participants) featured in the document or for the document's participants.
					Languages spoken by every user in the project.	Profile page	
Collective skills diversity	<i>Experimental</i>	<i>Academic-expert</i>	<i>Procedural</i>	Collective skill diversity	Words to identify in the group conversation for all users involved and classify according to feature categories.	Message content	n/a
Collective cultural diversity	<i>Cultural mix</i>	<i>Pluricultural</i>	<i>Unique</i>	Collective diversity score	Localization of every user in the project	Profile page	n/a
					Number of disciplines for every user expertise in the project.	Profile page	
					Languages spoken by every user in the project	Profile page	
Ways to obtain data sources.	<i>Snow ball</i>	<i>Sampling</i>	<i>Captive audience</i>	Sources mentioned in the project.	Text	Project proposal	n/a
Citizen/research compensation.	<i>Incentives</i>	<i>Contract</i>	<i>Altruistic duty</i>	Level of recognition	Words to identify “individual recognition” and classify according to predefined categories: authorship of every product, membership, acknowledgments, titles or badges in a platform, gifts, has a contract yes or no.	Project proposal, interviews.	The incentives that led the creators of the document to participate in its creation.
Main type of funding	<i>Crowdfunding</i>	<i>Mixed</i>	<i>Institutional</i>	Percentage of type of funding obtained for operations.	Funding source type	Profile page	The funding that allowed for the creation of the document.
					Funding amount	Profile page	
					Number of funding sources	Profile page	
					NLP analysis of text.	Final report	

Dissemination type of results	<i>Open</i>	<i>Divided according to fields</i>	<i>Academic oriented</i>	Degree of field hybridation	Who disseminates the product. Where is (are) the product disseminated? What is the product type disseminated (scientific or not)? What is the product format disseminated?	Survey Survey Survey Survey	The ways and the fields within which the document is disseminated.
Methods for recruiting citizens/researchers.	<i>Informal</i>	<i>Call procedure</i>	<i>Membership</i>	Contractual formalism	Recruitment mode for every user in the platform (informal, call procedure, membership). Contract time: task limited, short or medium-term, long-term.	Profile page Profile page	The ways in which the creators of the document were recruited for its creation.
Device specificity	<i>Ad hoc assemblage</i>	<i>Scientific and technical</i>	<i>Standard compliant</i>	Device specificity degree	List of tools used. Type of tools used.	Profile page, project proposal, interviews. Profile page, project proposal, interviews.	The nature of the tools used to create the document.
				Type of meeting	Duration, email subject.	Activity logs, calendars, emails.	

				Intensity of conversations and contributions	Sessions' duration. Uploads in the platform. Downloads from the platform. Document views. Page visits. Number of answers received/given.	Activity logs. Activity logs, google drive. Activity logs, google drive. Activity logs, google drive. Activity logs. Activity logs.	
Rhythm of citizen/research participation	<i>Burst</i>	<i>Planned</i>	<i>Continuous</i>	Frequency of conversations and contributions Frequency of meeting	Timestamp of messages received/given. Answer delays. Number of scheduled meetings. Number of unscheduled meetings. Timestamp of meetings done.	Activity logs. Activity logs. Activity logs, calendars, emails. Activity logs, calendars, emails. Activity logs, calendars, emails.	The rhythm of meetings that went into the creation of the document.
					Direction of exchanges: number of messages sent by first sender ID.	Profile page.	

Distribution of roles in scientific/citizen participation	Sharing	Expert discussion	Coaching	Degree of asymmetry	Number of messages received by first receiver ID.	Profile page.	The intentions behind the discourse featured in the document or the event it is documenting.
					Number of messages by any other different sender and receiver IDs.	Profile page.	
					Number of characters in the message.	Message content.	
					Role of first message sender.	Profile page.	
					Is the first sender a stakeholder in command.	Profile page.	
					Total number of messages exchanged.	Activity logs.	

				Contribution type.	Words to classify in predefined categories: substantial, phatic, managerial.	Message content.	
				Formalism degree of problem solving.	Number of ticket opening (zero means no formalism, possible accountability when formalism exists).	Activity logs.	
					Number of ticket-problem closed.	Activity logs.	
					Delay between opening and closing a ticket	Activity logs.	
					Number of iterations before closing a ticket.	Activity logs.	
Conflict and problem solving	<i>Arrangement</i>	<i>Negotiation</i>	<i>Procedural resolution</i>	Problem solving efficiency.	Number of contributors to the ticket problem solving.	Activity logs.	The ways any problems were resolved in the creation of the document or in the event it is documenting.

					<p>Number of tickets reopened with topic detection, to check if it's the same topic explicit or implicit (mail object, sender).</p> <p>Number of iterations.</p> <p>Delay before closing a ticket.</p>	<p>Message content.</p> <p>Activity logs.</p> <p>Activity logs.</p>	
Networking method	<i>Incrementation</i>	<i>Ad hoc</i>	<i>Already instituted</i>	Evolution of network size	Increase in the number of stakeholders.	Activity logs.	Does the document change the size of it's contextual network.
Networking quality	<i>Diversification</i>	<i>Specialization</i>	<i>Simplification</i>	Network diversity	<p>Number of accounts created</p> <p>Type of stakeholders in command (who is the leader): amateur, academic, civil society via NGO's</p> <p>Main type of result expected (scientific articles, etc.)</p>	<p>Activity logs.</p> <p>Profile page.</p> <p>Profile page.</p>	Does the document change the nature of it's contextual network.

Governance principles	<i>Iterpersonal</i>	<i>Market industry</i>	<i>Bureaucracy</i>	Social world balance	Lexicon related to "orders of worth" Type of words Weighing the type of words in the beginning, in the middle and at the end.	Messaging service flow, documents, meeting minutes, any other written text, google docs.	n/a
Idiom management	<i>Polysemic tolerance</i>	<i>Jargon translation</i>	<i>Convernition al language</i>	Idiom diversity degree	Text	Messaging service flow, documents, meeting minutes, any other written text, google docs, social media.	In the document, or the event it is documenting, how was specialized language handled.
Kwnoledge diversity processing	<i>Conceptual creolization</i>	<i>Correspondance and translation table</i>	<i>Contribution to common knowledge</i>	Knowledge convergence degree	Concepts used in the products, specific lexicon related to every discipline.	Papers in general, scientific articles, press media.	n/a

Knowledge Exchange orientation	<i>Egalitarian</i>	<i>Differential</i>	<i>Unidirectional</i>	Knowledge distribution balance.	Detecting new terms (concepts, topics) Who introduces new terms (concepts, topics). Who reproduces new terms (concepts, topic).	Message content in document versions, google docs, papers in general, scientific articles, press media. Message content in document versions, google docs, papers in general, scientific articles, press media. Message content in document versions, google docs, papers in general, scientific articles, press media.	The directions in which knowledge is deemed to flow either with this document, or in the event it is documenting.
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					<p>Who makes suggestions</p> <p>Who accepts suggestions.</p>	<p>Message content in document versions, google docs, papers in general, scientific articles, press media.</p> <p>Message content in document versions, google docs, papers in general, scientific articles, press media.</p>	
<p>Management style</p>	<p><i>Support</i></p>	<p><i>Stimulation</i></p>	<p><i>Control</i></p>	<p>Manager style</p> <p>Manager balance</p>	<p>Identify informal influential users.</p> <p>Identify explicit leaders/managers</p> <p>Identify lexicon related to management operations.</p> <p>Meetings metadata (e.g. participants in meeting).</p> <p>Feedback metadata.</p>	<p>Minute meetings, messaging services.</p> <p>Profile page.</p> <p>Minute meetings, messaging services.</p> <p>Activity logs, calendar.</p> <p>Activity logs, minute meetings.</p>	<p>What are the intentions behind those who create the document, or behind the leaders of the event that is being documented in regard to people who interact with it/them?</p>

Division of labor	<i>Ad hoc distribution</i>	<i>Skill based</i>	<i>Status based</i>	Plan work organization	Explicit organizational work. Organizational work official revision. Organizational work drifting	Project proposal. Minute meetings, papers produced, final reports. Survey.	How was labor divided for the creation of the document/during the event it documents?
Data articulation mode	<i>Data lake</i>	<i>Data network</i>	<i>Data workflow</i>	Documentation flow management	Data storage. Access control. Management procedure.	Profile page. Profile page. Profile page.	How can we calssify this document and its surrounding data as being available?
Stakeholder and data scalability	<i>Staggering</i>	<i>Anticipated</i>	<i>Stable</i>	Increase of stakeholders. Increase of data volume.	Number of stakeholders throughout time: who creates accounts. Data volume aquisition throughout time. Number of data sources available.	Profile page, activity logs. Profile page, activity logs (if tasks are integrated in the platform), external data. Profile page, activity logs (if tasks are integrated in the platform), external data.	Is the document or the event it is documenting looking to increase the nubmer of stakeholders in it's contextual network?
				Degree of collective assessment.	Results declared in comparison with results reported. Justification of results.	Meeting minutes, final reports, products. Final reports, produts.	

Learning process	Trial and error	Scientific method	Capitalization	Assessment style score (as part of learning process).	Milestones, results expected, quality criteria defined.	Profile page.	How can be characterize the learning processes that went into the creation of the document, to which the document is contributing?
					Detect assessment terms.	Messaging services, meeting minutes, final reports, products. Messaging services, meeting minutes, final reports, products. Final reports, minute meetings.	
					Detect assessment timestamp.	Final reports, minute meetings.	
					Detect decision terms	Final reports, minute meetings.	
					Detect decision timestamp.	Final reports, minute meetings.	
					Detect milestone terms.	Final reports, minute meetings.	
				Assessment	Are there indicators in the project.	Messaging services, emails, minute meetings.	
					Identify expressions of assessment.	Messaging services, emails, minute meetings.	

Engagement assessment type	<i>Proof of initiative</i>	<i>Proof of work</i>	<i>Proof of compliance</i>	style score (as part of engagement assessment type).	Semantic properties of assessment (e.g. delays, respect). Is quality semantic present. Identify semantics of quality (e.g. initiative taken, creativity).	Messaging services, emails, minute meetings. Messaging services, emails, minute meetings. Messaging services, emails, minute meetings.	What is the context for this document, the event it is documenting?
Legal and ethical compliance	<i>Versatility</i>	<i>Risk taking</i>	<i>Certificated</i>	Legal and ethical compliance score	Data management plan created Infrastructure compliance with DMP. Open data repository. GDPR or applicable law compliance. Gender balance.	Profile page. Profile page. Profile page. Profile page.	Assesment of the legal and ethical complicate of the documnt or the event it is documenting.