

10TH DISCOURSE, COMMUNICATION AND THE ENTERPRISE CONFERENCE

3 to 5 June 2019 - Leuven, Belgium

Exploring the promotional video of a Chilean Technology Transfer Office: Building trust through attitudinal meanings

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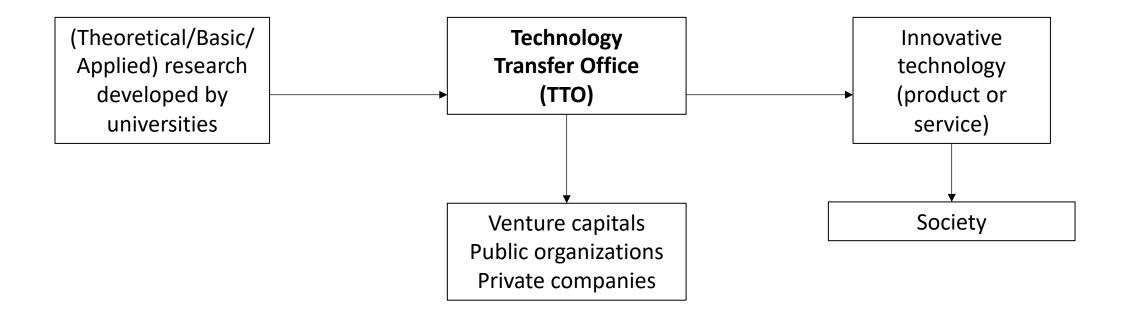
Research supported by

Ph.D. Thesis:

Building value in the Technology Transfer discourse: Appraising in the context of innovation

- 1. What is 'technology transfer'?
- 2. Our approach to 'trust' from linguistics
- 3. Questions
- 4. Methodology: toolkit for analysis
- 5. Results
- 6. General conclusions

Technology transfer



From a sociological point of view, "Technology Transfer is an activity of economic production that requires high levels of cooperation and interdependence among its participants"

(Pina-Stranger & Lazega, 2011)

...and cooperation implies "trust" among stakeholders (Robbins, 2016)

... organizations (like TTO) use different strategies to show "trustworthiness"

Show video

https://youtu.be/ocD7TLDE6MQ

Then... how to analyze trust(worthiness)?

- different approaches to "trust" most of them using surveys to obtain workers and managers' perception on trust and good leadership.
- surveys include questions related to ability, benevolence, integrity (Mayer, Davis & Schoorman, 1995)

However

- no systematic description of language patterns that allow creating trustworthiness, e.g. in accounts, press releases or promotional videos
- no description of how different modes of expression (visuals and verbal language) work together to create "trust(worthiness)", specially in promotional videos, which corresponds to one of the most versatil platforms to share content through social media

Our approach to 'trust' from linguistics

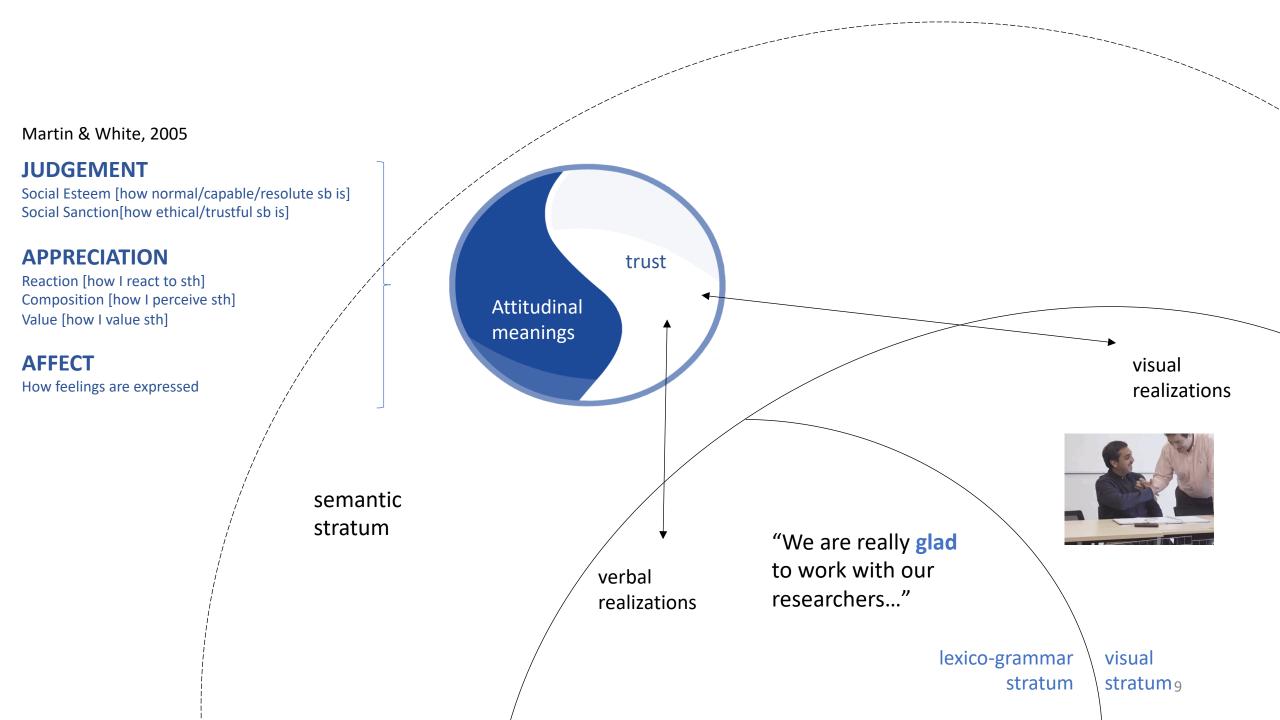
meaning-making process

different semiotic resources (van Leeuwen, 1996)

attitudinally built construct

eminently evaluative (Martin & White, 2005)

axiological alignment (Hunston & Thompson, 2000)



Question and objetive

 How is 'trust' bimodally (verbally and visually) built through attitudinal meanings in the promotional video of the Technology Transfer Video of UC?

[Explore the meaning potential of semiotic resources and]
 characterize how 'trust' is bimodally built through attitudinal
 meanings in the promotional video of the Technology Transfer Office
 of UC

Method: a basic toolkit for bimodal analysis

Preparing data

- Transcription and translation into English of the video description.
- Segmentation of images into shots (ledema, 2001), using Giphy Capture. (minimal visual unit of analysis)

Processing oral data

- Identification of lexico-grammatical realizations of evaluative attitudinal meanings (Martin & White, 2005)
- Identification of valued entities
 [UC/TTO]

Processing visual data

- Description of participants (who's depicted in the image)
- Description of the visual structures (narratives / symbolic) (Kress et al. 1996)
- Identification of participants and processes' evocation

Looking for patterns

- Association
 between
 participants/proc
 esses and
 Attitudinal
 meanings
- Identification of patterns of evaluation in both modes and along the text [logogenetically and iconogenetically]





A proposal for exploring 'trust' in the promotional video of a Chilean Technology Transfer Office (TTO)

German Varas E. & Valentin Gerard

The video corresponds to the <u>promotional video</u> of the Direccion de Transferencia y Desarrollo, the Technology Transfer Office (TTO) of Pontificia Universidad Catolica de Chile (PUC). It lasts 00:02:13 (24fps) and it was translated into English, using <u>Aegisub</u> and <u>HandBrake</u>, by the researcher. Each gif animation (15fps) corresponds to one shot (Iedema, 2001), captured using <u>Giphy</u>. During the video, Mr. Alvaro Ossa, Manager Director of the TTO, describes and explains, alternating with a voice-over, the organization's labor. Attitudinal semantic categories for valuation were based on the Appraisal system (Martin & White, 2005) developed within the socio-semiotics framework of SFL (see <u>Oteiza 2017</u> for a clear description). For associating the visual resources with the semantic valuation categories, we carried out a interpretation exercise, using Kress & van Leeuwen (1996) micro analytical categories. This theory-based interpretation exercise allowed us to deconstruct the concept of `trustworthiness` and suggest a data-driven set of indicators that may be useful to understand how trust is bimodally and logogenetically built in this promotional video as an instance of the `discourse of innovation`.

Attitudinal meaning deployment: oral mode

Entity	Judgement:	Judgement:	Approxiation	Affact
Entity	social esteem	social sanction	Appreciation	Allect



Attitudinal meaning deployment: visual mode

Entity	Judgement: social esteem	Appreciation	Affect
UC	Street of Americans		

3.981413

Data-driven set of indicators for rebuilding the trustworthiness construct: a still working-in-progress model

Scientificity	Institutionalism	Innovativeness	Realia & Mise en scene	Pain & medicine	Impact	Testimony	Proximity	Equality
	PORTIFICA VALUE IN AND CONTRACT UNION AND							
	Dirección de Transferencia y Desarrollo							

Results: Oral mode [emphasis on patterns related to JUDGEMENT attitudinal meanings]

Mapping Social Esteem [how capable and resolute sb is]

There is a couple of meanings expressing how resolute (Social Esteem: tenacity) the TTO is towards innovation.

[UC] we are **sure** that...

[UC] we have taken a <u>firm and decisive</u> step towards innovation...

It's worth noting that it is interesting how a tenacity meaning (realized through sure) allows projecting an ethical meaning:

we are <u>sure</u> that // we will <u>improve</u> the quality of life of people

The UC is a 'determined' organization

Mapping Social Sanction meanings [how trustful and ethical sb is]

Meanings related to *Social sanction: integrity* are usually realized by verbal groups ([TTO] *impact*, [TTO]*contributing*, [TTO]*transferring*, [UC]*serves*, [UC]*improve*).

Another common strategy to express ethical meanings is through adverbial clauses of purpose:

[TTO] *in order to* positively **impact** on people

[TTO] with the aim of contributing to society

[TTO] *in order to* improve the life quality of people

Purpose is also presented as a grammatical metaphor as in [UC] our goal is to support researchers (...).

OTT/UC has a purpose OTT/UC want to help.

Results: Visual mode [emphasis on patterns related to JUDGEMENT attitudinal meanings]





Social Esteem: capacity

UC can do science



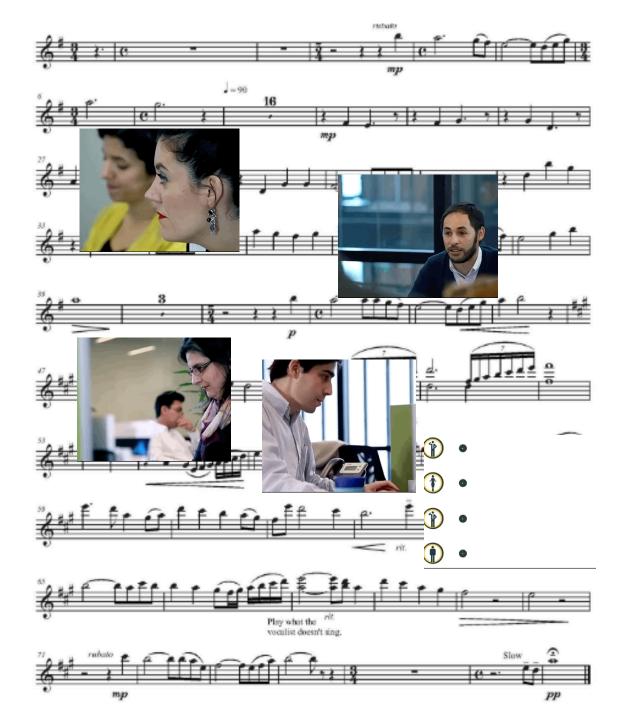


TTO has the knowledge for transference

Social Sanction: integrity meanings can be spread all over the text

Social Sanction: integrity

TTO is concerned about 'equality'



Data-driven set of 9 visual indicators for reconstructing the "trust" construct in the promotional video of a TTO

Indicators	Description
Scientificity	Different items related to the academia are depicted, such as scientific articles, conference posters, fully equipped laboratories, scientists wearing white coats, etc.
Institutionalism	Institutional icons are depicted, e.g. religious statues (for example, in the case of Catholic universities), iconic buildings, logotypes, etc. These icons are able to adopt specific sets of values and believes, thus building trustworthiness.
Innovativeness	Participants (+/- human) are depicted as modern, futurist or "innovative", e.g. complex architectural buildings, state-of-the-art scientific equipment, etc.
Realia & mise en scène	A set of contextual images are shown. Two strategies were identified: realia and mise en scène. In realia, actions are shown as occurring in real time while in mise en scène people (specially workers) are depicted as supposedly working in their everyday environment.
Pain & Medicine	Images related to a specific (social) problem are shown as well as images related to its corresponding solution (for example, a technology).
Impact	Benefits for society (target populations/users) or/and business are depicted, e.g. via animation.
Testimony	Participants' narratives, often in premier plan, are shown.
Proximity	People are depicted as maintaining some sort of close relationship, e.g. laughing together, backing, etc.
Equality	Possible differences are managed. Racial, ethnic, gender, cultural, class differences are depicted equally in number, screen time, etc.





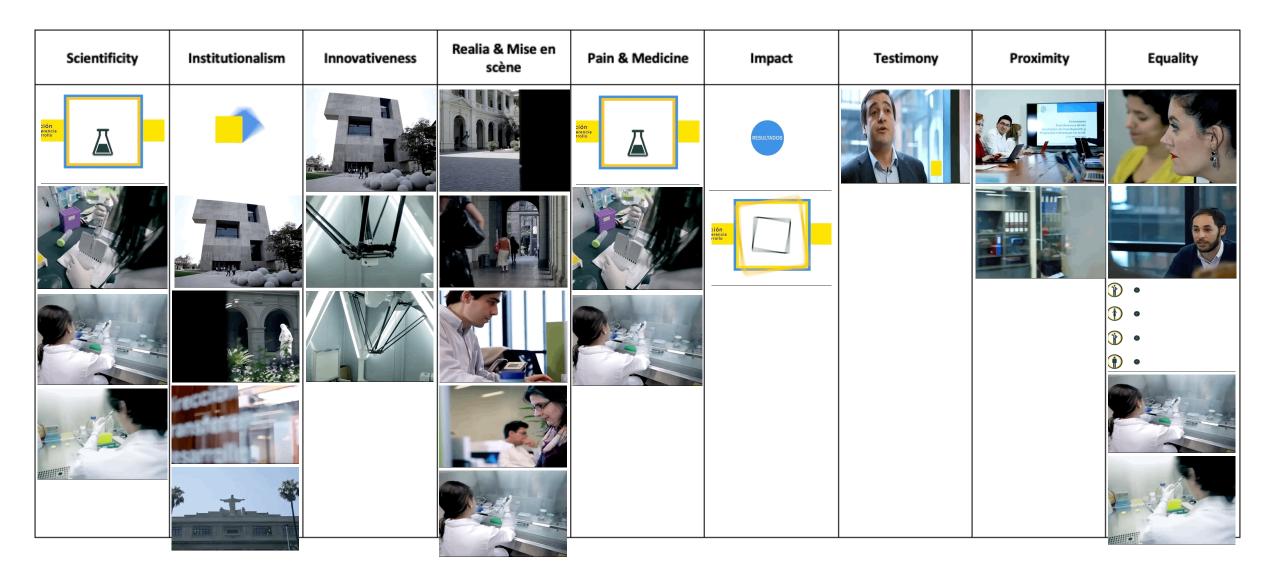












Final considerations

- This study has tried to show how 'trust' is developed through verbal and visual language
- 'Trust' is a multisemiotic process in which there is a tendency to exploit attitudinal meanings, especially through JUDGEMENT type of evaluations, i.e. Social Esteem: tenacity/capacity and Social Sanction: integrity
- The powerful potential of images to evoke meaning allows to propose labels for (re)constructing the 'trust' concept
- This investigation may provide other researchers with a basic toolkit to understand how 'trust(worthiness)' is visually realized in companies' promotional videos



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Thank you for your attention

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Student - Ph.D in Linguistics Pontificia Universidad Católica de Chile



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Ph.D Thesis:

Backing slides

Attitudinal meaning deployment: oral mode

Our goal is to be able to support researchers

Entity Judgement: social esteem Judgement: social sanction positively impact on

people and society

with the aim

contributing

above all, transferring

these results to society

of

to the economic and social development of Chile and the World

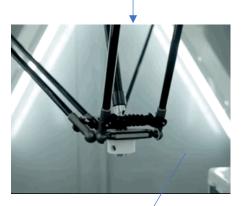


Social Sanction: integrity

1:26 / 2:12

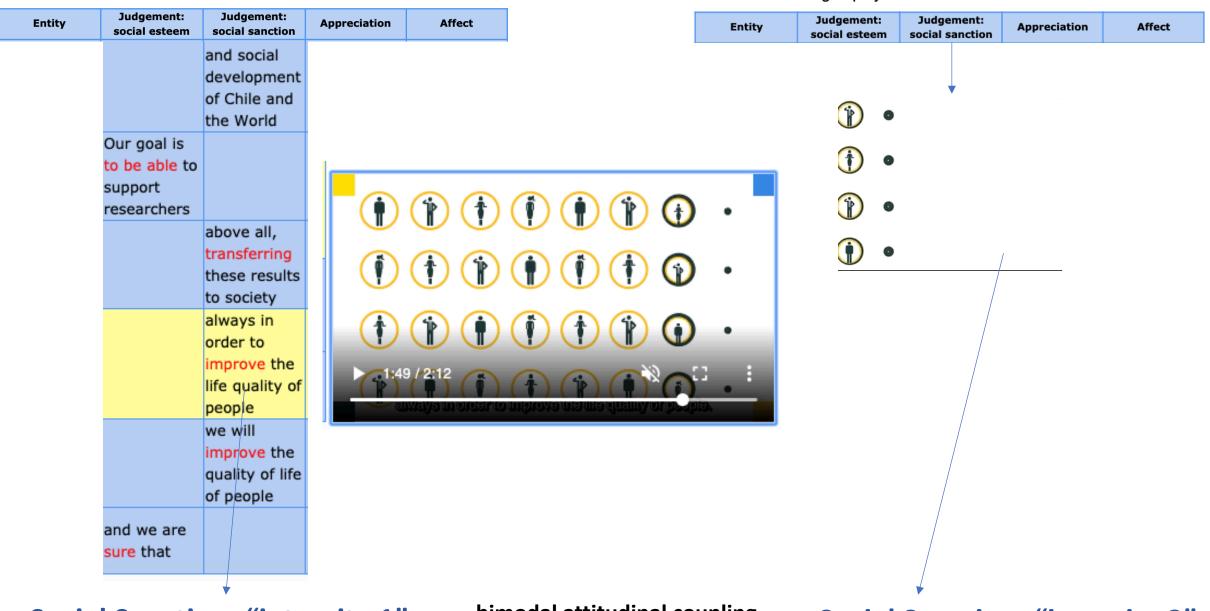
Attitudinal meaning deployment: visual mode

Entity	Judgement: social esteem	Judgement: social sanction	Appre	ciation	Affect



Appreciation: valuation

→ state-of-the-art equipment



Social Sanction: "integrity 1"

bimodal attitudinal coupling

Social Sanction: "integrity 2"

Indicators	Prototypical attitudinal meanings associated by connotation
Scientificity	Judgement: Social Esteem: capacity
Institutionalism	Appreciation: Reaction: quality
Innovativeness	Appreciation: valuation
Realia & mise en scène	Judgement: Social Sanction: veracity
Pain & Medicine	Affect: insecurity (for pain)
	Judgement: integrity (for medicine)
Impact	Judgement: Social Sanction: integrity
Testimony	Judgement: Social Sanction: veracity
Proximity	Affect: Satisfaction
Equality	Judgement: Social Sanction: integrity

Other examples: The case of FishExtend, the organic film to extend fish's properties

Scientificity	Institutionalism	Innovativeness	Realia & Mise en scène	Pain & Medicine	Impact	Testimony	Proximity	Equality
Abrication Comming Solution Sign Management Managem	FISHEXTEND Loanities shall file					TOE TOE SOME		
Film forming solution Filluts Sale Consider Filluts Sale Consider Filluts Sale Treatment Filluts Sale Filluts S								

Other examples: The case of the anti-seismic technology for wineries

Scientificity	Institutionalism	Innovativeness	Realia & Mise en scène	Pain & Medicine	Impact	Testimony	Proximity	Equality
						ALFAUMA BAY SCH.		
						GERENTIL DI DISARROLLO TERSAIN		

Technology Transfer Office Agents

Basic act	Basic actors	Basic purpose
persuade	venture capitals	 to invest in the technologies (in different TRL – technology readiness levels) developed by university researchers
provide	private companies	with solutions in exchange of money
provide	public organizations	 with solutions in exchange of money or public recognition
convince	consortia	 of investing in the development of certain technologies to satisfy their main needs
encourage	researchers	 To apply for public funding for applied research To develop technology to satisfy the industry needs (demand pull logic) To make strategic commercial alliances with the industry To license their technologies To create spin-offs
orient	faculty technology managers	 To suggest applied research niches and coordinate possible work along with the industry
motivate	students	to develop Ph.D. research in areas of impact for the country's development
make	lawyer buffets	find the best technology protection and commercial strategy
ask	IP public institution (INAPI)	for mutual contribution and public recognition
nourish	technology hubs	with ideas on possible technology developments and investment niches
ask	technology advisors	• for recommendations about the best way to create value for a technology

MODEL FOR STUDYING ATTITUDINAL MEANINGS

(Martin & White, 2005)

JUDGI ethics	EMENT	APRECIATION aesthetics	AFFECT emotions
Social Esteem	Social Sanction		
how special sb is how capable sb is how resolute sb is	how trustful sb is how ethical sb is	how we react to sth what is our perception regarding sth how we describe the value of sth	how confident sb is how satisfied sb is how happy sb is what desires are wished
lucky, eccentric competent, productive brave, perseverant	honest, credible sensitive, respectful	honest, credible sensitive, respectful	confident, comfortable pleased, impressed cheerful, love long for, yearn for

Social Esteem: capacity



Social Sanction: veracity





















