Dropout and engagement in Vocational Education and Training : A self-determination approach



Source: Calvin & Hobbes

Teaching Practice and the Prevention of Early Drop-out from Vocational Training: Empirical Approach and Proposal for Intervention International Seminar and Biannual Team Meeting - Palma, November 21-22, 2022 Prof. Jean-Louis Berger - Université de Fribourg (Suisse) - jean-louis.berger@unifr.ch

The Self-Determination Theory

Basic Needs	Organismic	Goal Contents	Cognitive	Causality
Theory	Integration Theory	Theory	Evaluation Theory	Orientations Theory
Introduces the concept of basic needs. Specifically elaborating on the basic psychological needs of: <i>Autonomy,</i> <i>Confidence and</i> <i>Relatedness</i>	Clarifies that individuals are inclined towards performing certain behaviours. Focuses on the taxonomy of motivation specifying different types of extrinsic motivation on a scale of autonomy	Distinguishes extrinsic goals from intrinsic goals in accordance with meeting the basic psychological needs	Explains how external events can either facilitate or undermine intrinsic motivation. Focuses on how certain reward structures can detract from an individual's motivation	Focuses on the individual differences of motivation. Specifies between 3 orientation styles: <i>autonomy</i> <i>orientated, control</i> <i>orientated,</i> <i>impersonally</i> <i>orientated</i>

Source: https://en.wikiversity.org/wiki/Motivation_and_emotion/Book/2020/Self-determination_theory_in_education

Deci, E. L., & Ryan, R. M. (1985). Intrinsic motivation and self-determination in human behavior. Plenum.

Ryan, R. M., & Deci, E. L. (2017). Self-determination theory: Basic psychological needs in motivation, development, and wellness. The Guilford Press. https://doi.org/10.1521/978.14625/28806

The Basic Needs Theory: Criteria

- Relate to the psychological (not physical) functioning
- Need satisfaction contributes to development, well-being and adjustment; frustration leads to multiples issues
- Basic needs shape people thinking, acting and feeling
- Existence and relevance of needs are considered universal: across cultures, socio-demographics, etc.

Ryan, R. M., & Deci, E. L. (2020). Intrinsic and extrinsic motivation from a self-determination theory perspective: Definitions, theory, practices, and future directions. *Contemporary Educational Psychology, 61*, 101860. <u>https://doi.org/10.1016/j.cedpsych.2020.101860</u>

Vansteenkiste, M., Ryan, R. M. & Soenens, B. (2020). Basic psychological need theory: Advancements, critical themes, and future directions. *Motivation and Emotion, 44*, 1–31. <u>https://doi.org/10.1007/s11031-019-09818-1</u>

The Basic Needs Theory: Description

	Autonomy	Competence	Relatedness
Definition	Sense of initiative and ownership in one's actions	Feeling of mastery, sense that one can succeed and progress	Sense of belonging and personal connection
A student feels that s/he	has some choices during classes	is able to reach teachers' expectations	has some enriching interactions at school
Sample item	I feel like I am free to decide for myself how to live my life.	Most days I feel a sense of accomplishment from what I do.	People in my life care about me.
Supporting / Undermining factors	Supported by experiences of interest and value; Undermined by experiences of being externally controlled (rewards or punishments)	Satisfied within well-structured environments that afford optimal challenges, positive feedback, and opportunities for progress	Facilitated by respect and caring between individuals

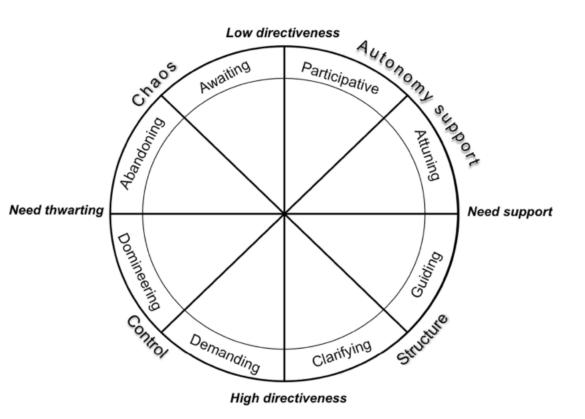
Ryan, R. M., & Deci, E. L. (2020). Intrinsic and extrinsic motivation from a self-determination theory perspective: Definitions, theory, practices, and future directions. *Contemporary Educational Psychology, 61*, 101860. <u>https://doi.org/10.1016/j.cedpsych.2020.101860</u> Vansteenkiste, M., Ryan, R.M. & Soenens, B. (2020). Basic psychological need theory: Advancements, critical themes, and future directions. *Motivation and Emotion, 44*, 1–31. <u>https://doi.org/10.1007/s11031-019-09818-1</u>

The Motivational Taxonomy (Organismic Integration Theory)

Motivation	AMOTIVATION		EX1 MOT	RINSIC VATION	INTRINSIC MOTIVATION
Regulatory Style		External Regulation	Introjection	Identification Integration	
Attributes	 Lack of perceived competence, Lack of value, or Nonrelevance 	 External rewards or punishments Compliance Reactance 	 Ego involvement Focus on approval from self and others 	 Personal importance Conscious valuing of activity Self- endorsement of goals Conscious valuing Self- 	 Interest Enjoyment Inherent satisfaction
	[Controlled motivation		Autonomous motiv	ation

Ryan, R. M., & Deci, E. L. (2020). Intrinsic and extrinsic motivation from a self-determination theory perspective: Definitions, theory, practices, and future directions. *Contemporary Educational Psychology, 61*, 101860. <u>https://doi.org/10.1016/j.cedpsych.2020.101860</u>

The teachers' motivational styles (Cognitive Evaluation Theory)



Autonomy support (vs Control)

- Provide rationales for learning
- Use informative language
- Be patient to allow for different learning times
- Recognize and accept expressions of negative emotions

Structure (vs Chaos)

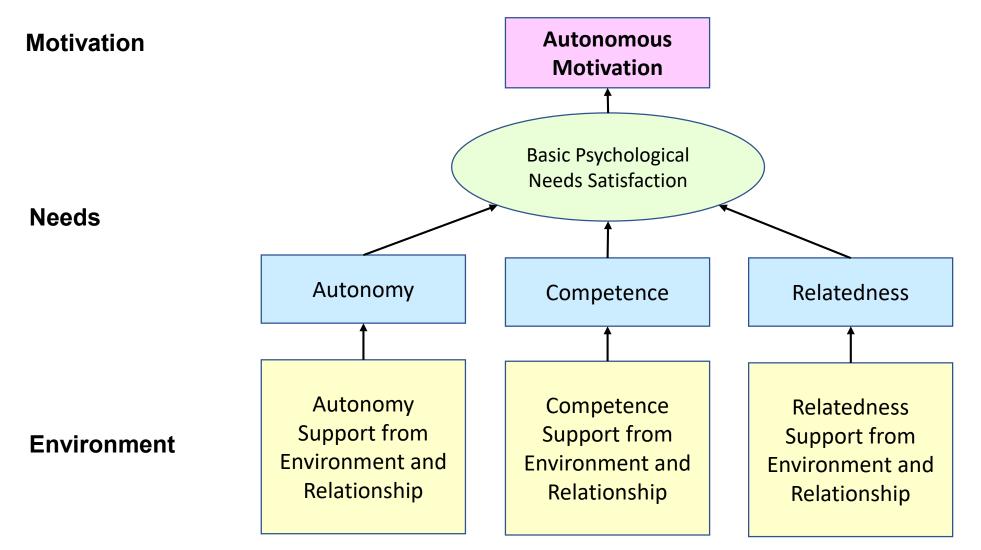
- Explain what is expected of apprentices before they begin a task
- Give clear and precise instructions (explicit)
- Indicate how apprentices are expected to meet expectations
- Provide individualized feedback and suggestions on how the learner can improve

Relatedness support

- Facilitate connections between the course materials and student life;
- Show openness to prevent student self-silencing;
- Ask for student feedback
- Develop a student-centered classroom

Aelterman, N., Vansteenkiste, M., Haerens, L., Soenens, B., Fontaine, J. R. J., & Reeve, J. (2019). Toward an integrative and fine-grained insight in motivating and demotivating teaching styles: The merits of a circumplex approach. *Journal of Educational Psychology, 111*(3), 497–521. <u>https://doi.org/10.1037/edu0000293</u> Escandell, S., & Chu, T. L. (Alan). (2021). Implementing relatedness-supportive teaching strategies to promote learning in the college classroom. *Teaching of Psychology.* <u>https://doi.org/10.1177/00986283211046873</u>

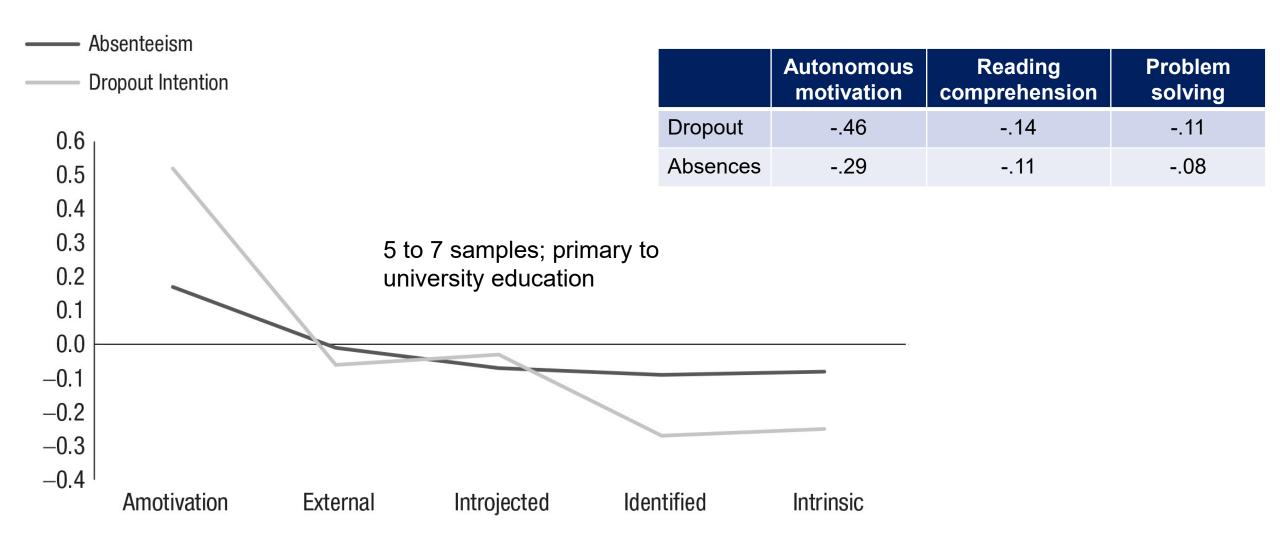
Teacher's motivational styles, students' basic needs, and autonomous motivation



Bureau, J. S., Howard, J. L., Chong, J. X. Y., & Guay, F. (2022). Pathways to student motivation: A meta-analysis of antecedents of autonomous and controlled motivations. *Review of Educational Research*, 92(1), 46–72. <u>https://doi.org/10.3102/00346543211042426</u>

Reeve, J. (2018). Understanding motivation and emotion (7th ed.). Wiley.

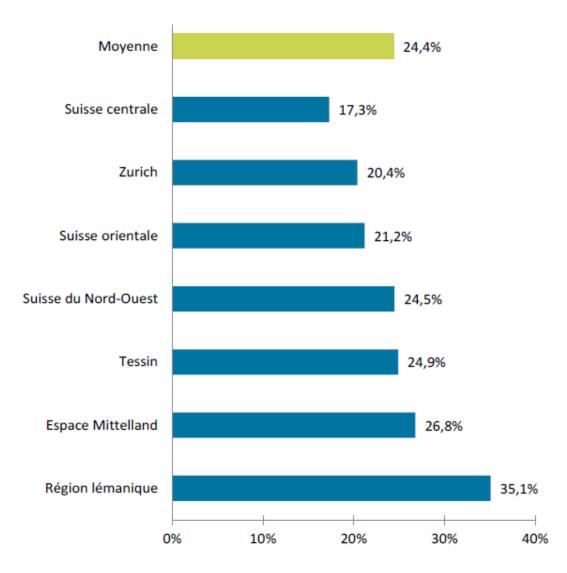
Correlations Motivation – Dropout intention and Absenteeism



Blanchard, C., Pelletier, L., Otis, N. & Sharp, E. (2004). Rôle de l'autodétermination et des aptitudes scolaires dans la prédiction des absences scolaires et l'intention de décrocher. *Revue des sciences de l'éducation, 30*(1), 105–123. <u>https://doi.org/10.7202/011772ar</u> Howard, J. L., Bureau, J., Guay, F., Chong, J. X. Y., & Ryan, R. M. (2021). Student Motivation and Associated Outcomes: A Meta-Analysis From Self-Determination Theory. *Perspectives on Psychological Science, 16*(6), 1300–1323. <u>https://doi.org/10.1177/1745691620966789</u>

Dropping-out of VET programmes

- The Swiss Dual VET system
- In Switzerland: 24.4% of VET contracts are prematurely terminated
- Main reasons relate to:
- a) The apprentice (motivation, aspiration, competences)
- b) The training company (e.g., quality of training)
- c) The economy (e.g., economic situation)
- d) The occupation (e.g., working conditions, demand)



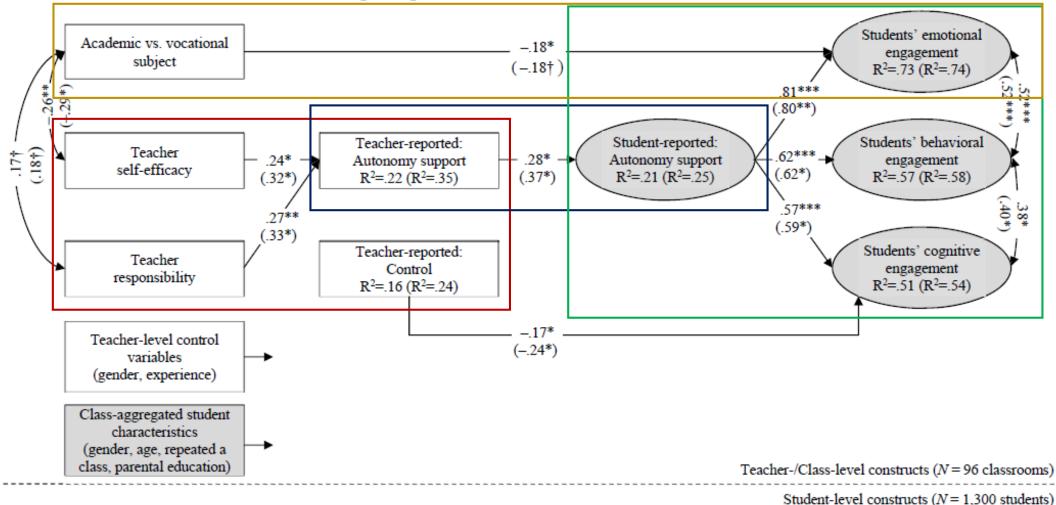
Kriesi, I., Neumann, J., Schweri, J., Griga, D., Kuhn, A., Schmid, E. & Baumeler, C. (2016). *Rester? S'en aller? Recommencer? Fréquence, causes et répercussions des résiliations de contrats d'apprentissage*. Observatoire suisse de la formation professionnelle. Institut fédéral des hautes études en formation professionnelle.

Autonomy support and control at the vocational school and training company

	Examples of Autonomy Support	Examples of Control
Vocational School	The teachers are great because they listen to us. [F; 3rd year; Retail] The teachers are available when you do not understand, you can always call on them or send them emails when something is not understood. [F; 1st year; Retail] Some teachers are not listening enough to our needs and opinions [F; 3rd year; Retail]	There is a lot to do at home, which gives me the impression that the teachers do not realize that we also work the rest of the week. [M; 2nd year; Technical] There must be trust and no need to fill out absence forms in order to be justified. [F; 1st year; Retail] School should not treat people as if they were 'children' (having detention when you are 22 years old). [F; 1st year; Retail]
Training Company	We learn to manage ourselves on our own. [F; 3rd year; Retail] My trainer trusts me and lets me handle tasks myself. My trainer considers me sufficiently qualified to undertake a large part of the work. [M; 3rd year; Technical] I have the freedom to work as an employee and not as an apprentice. They value the work we do. [F; 2nd year; Retail]	Apprentices are considered incompetent. [M; 2nd year; Technical] People think we are here to do the unwanted work, while we are actually here to be trained. [M; 2nd year; Technical] I am not a mover or a cleaner. [M; 3rd year; Technical]

Gross, V., Berger, J.-L., Wenger, M., & Sauli, F. (2020). Motivating styles in dual initial vocational education and training: Apprentices' perceptions of autonomy support and control. *Journal for Vocational, Adult and Continuing Education and Training, 3*(1), 67-88. <u>https://doi.org/10.14426/jovacet.v3i1.126</u>

How teachers' motivational styles explain VET students' engagement in school?



Lauermann, F., & Berger, J.-L. (2021). Linking teacher self-efficacy and professional responsibility with teachers' self-reported and student-reported motivating styles and student engagement. *Learning & Instruction, 76*, 101441. <u>https://doi.org/10.1016/j.learninstruc.2020.101441</u>

Intentions to stay in the same professional domain after graduation

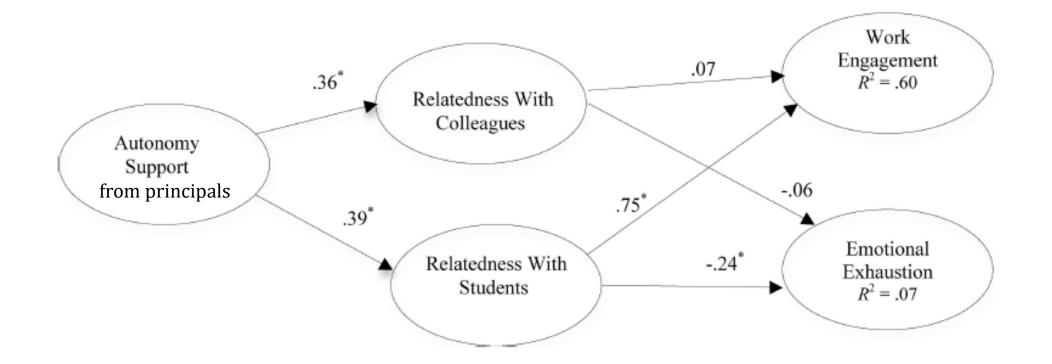
	Intention to Stay in the Same Field after Graduation		Intention to Prematurely Terminate the Apprenticeship Contract		
	β	p	β	p	
Autonomous Motivation	.17	< .01	28	< .001	
Future-Oriented Motivation	33	< .001	.11	.15	
Social Proximity Motivation	.43	< .001	05	.53	
R ²		.17		.08	

Jan, D. (2022). L'importance des cours interentreprises dans la formation des apprenti e·s : dans le domaine du commerce de détail en produits nutritifs et stimulants. Travail de Master. Université de Fribourg . https://doi.org/10.51363/unifr.lma.2022.001

Jan, D., & Berger, J.-L. (2022). Comment persévérer dans un métier qui n'est pas le mien? Motivation et perspectives professionnelles d'apprenti·e·s en gestion du commerce de détail. Manuscrit soumis pour publication

How to explain apprentices' school engagement?		Predictor	Model 1	Model 2	Model 3
			β	β	β
		Hair and beauty care	.03	01	06
		Aministration	31***	28***	01
		Retail management	17**	13**	03
-	Individual	1st year of training	-13**	.11**	.07*
	characteristics	3rd year of training	06	02	02
		Age	16***	13***	02
Hierarchical multiple		Male	-17***	21***	18***
regressions for predicting	Motivational _ aspects	Perceived competence		.28***	.14***
school engagement		Choice by default		14***	06*
		Theory-practice links			.29***
		Contacts between learning sites			02
	Perceived	Portfolio			.07*
	training	Being considered as an adult			.25***
	quality 7	Workload at school			02
		Controlling motivational style			.08*
		Teaching practices			.22***
Berger, JL., Wenger, M., & Sauli, F. (soumis). Comment l'engagement en formation professionnelle initiale duale en Suisse et les perceptions de la qualité de la formation vont-elles de pair ?		Social relationships in school			.10***
		R ²	.12	.23	.53

Supporting teachers' autonomy also matters



Klassen, R. M., Perry, N. E., & Frenzel, A. C. (2012). Teachers' relatedness with students: An underemphasized component of teachers' basic psychological needs. *Journal of Educational Psychology*, *104*(1), 150–165. <u>https://doi.org/10.1037/a0026253</u>

Conclusions

Need satisfaction is a key factor to understand engagement/dropout→ How much do VET

schools/training company care about autonomy, competence and relatedness?

- How to satisfy each of the basic needs in VET context?
- Autonomous motivation is another key → How much do teachers and trainers know about the quality
 of motivation?
- Teachers need autonomy support and sense of efficacy to, in turn, support students' needs
- Understanding the road from teachers' need to student motivation is necessary



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