

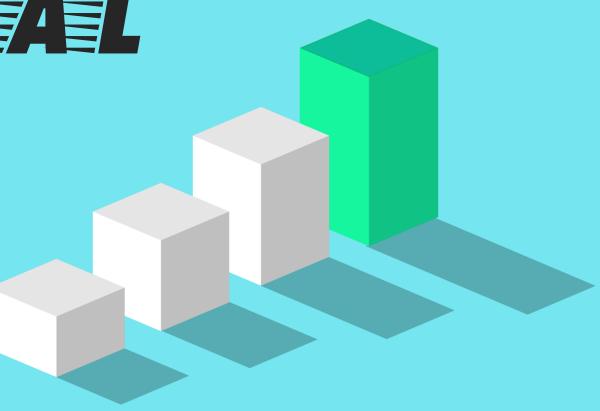
Practical HR Analytics with Maxim

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Code and slidedeck at:

https://github.com/iLLucionist/growthp



The Seal of Approval

Problem: what should we advise organizations based on employee research?

73
Burnout

Your organization's score



Now what !?

Why industry benchmarks are not really meaningful

- You don't know whether your score is meaningfully higher or lower than the benchmark
- 2. You don't know how you may improve the outcome

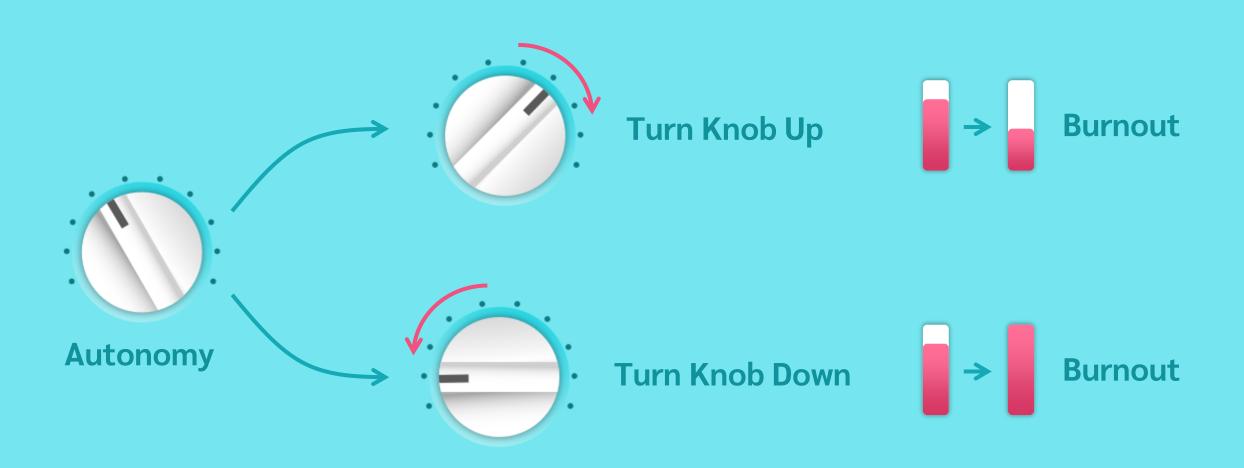
Is knowing your absolute score really all that meaningful?

Finding Control Knobs

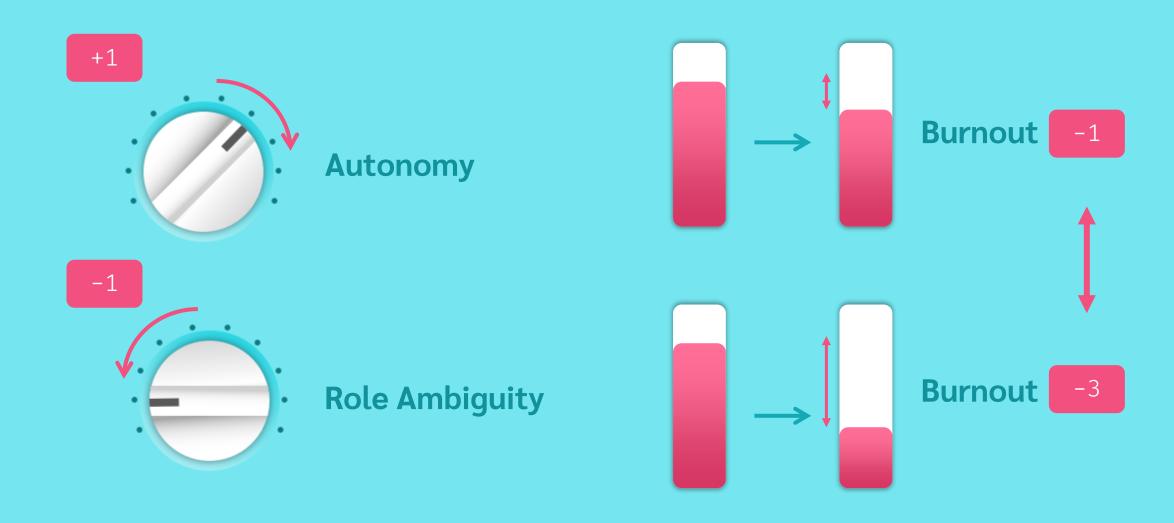
Using <u>regressions</u> to find work factors organizations may change to improve outcomes they care about



Changing Knobs Changes Outcomes



Changing Knobs Changes Outcomes



But... we don't know how <u>far</u> we can still turn the knobs



- Regression analysis may reveal useful turning knobs
- Regression weights do not tell us how far the knobs are already turned

Solution: combine scores with regression weights

GROWEH POTENTIAL

Find out how far the knobs are already turned and recommend which knobs to turn to improve important outcomes

Benchmark

Use organization as their own internal benchmark

2.

Compare

Determine teams' growth potential using benchmark

3.

Rank

Weigh and rank growth potential using regressions 4.

Recommend

Make actionable shortlists teams can put into practice to realize growth potential

GROWETH POTENTIAL

Valuable Work

Employees' perception that work is personally meaningful and interesting

Team score 7.5

Benchmark

6.0

Growth potential:

How far the knob can still be turned

1. Red Tape

Burdensome and unnecessary rules

2. Obstacles

Things at work that stand in the way of completing tasks and attaining goals

3. Valuable Work

Employees' perception that work is personally meaningful and interesting

Recommended actions:

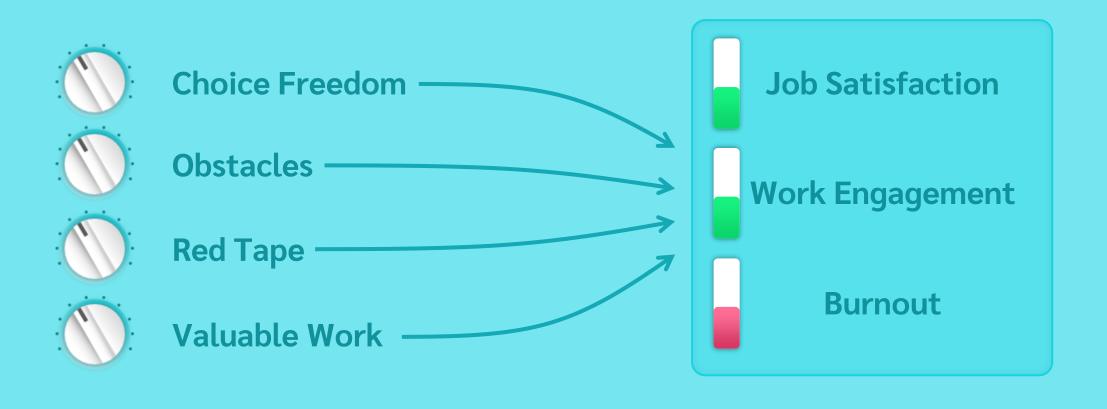
The knobs that improve outcomes the most

Autonomy Analytics

Case Study: Which autonomy "knobs" should a team turn to improve work outcomes?

Autonomy Analytics

Case Study: Which autonomy "knobs" should a team turn to improve these work outcomes?





GROWEH POTENTIAL

Find out how far the knobs are already turned and recommend which knobs to turn to improve important outcomes

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Use organization as their own internal benchmark



Reference point

Use high scoring teams (90th percentile) as comparison standard r10 benchmark

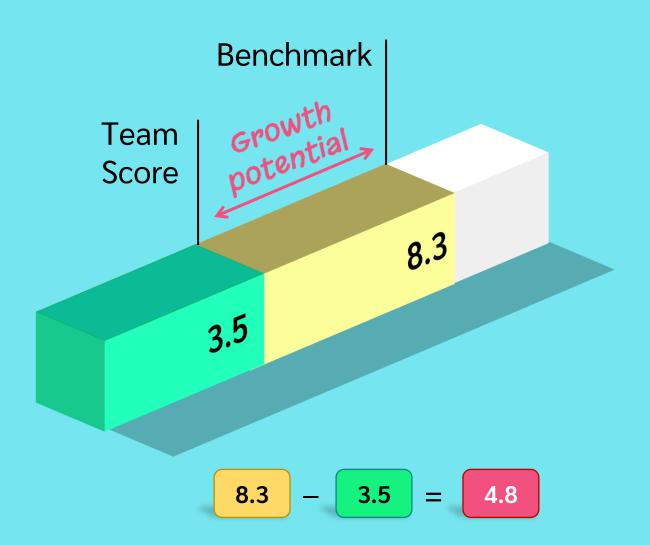
	10%	90%	Reference
Choice Freedom	5.6	8.2	8.2
Obstacles	4.2	7.0	4.2
Red Tape	6.0	9.0	6.0
Valuable Work	7.3	8.9	8.9
Job Satisfaction	7.0	8.3	8.3
Work Engagement	6.4	8.3	8.3
Burnout	2.1	4.4	2.1

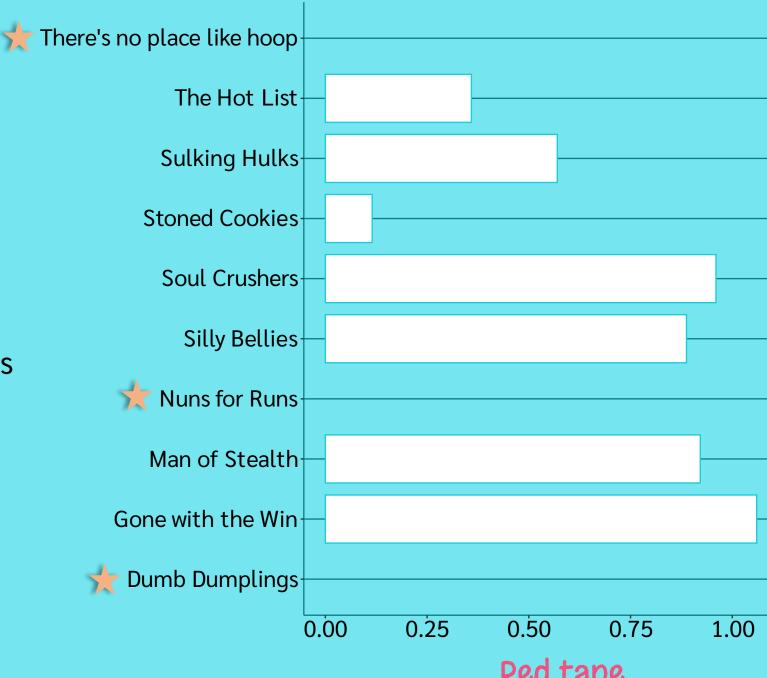
"Flipping"

Determine teams' growth potential using benchmark

Growth potential

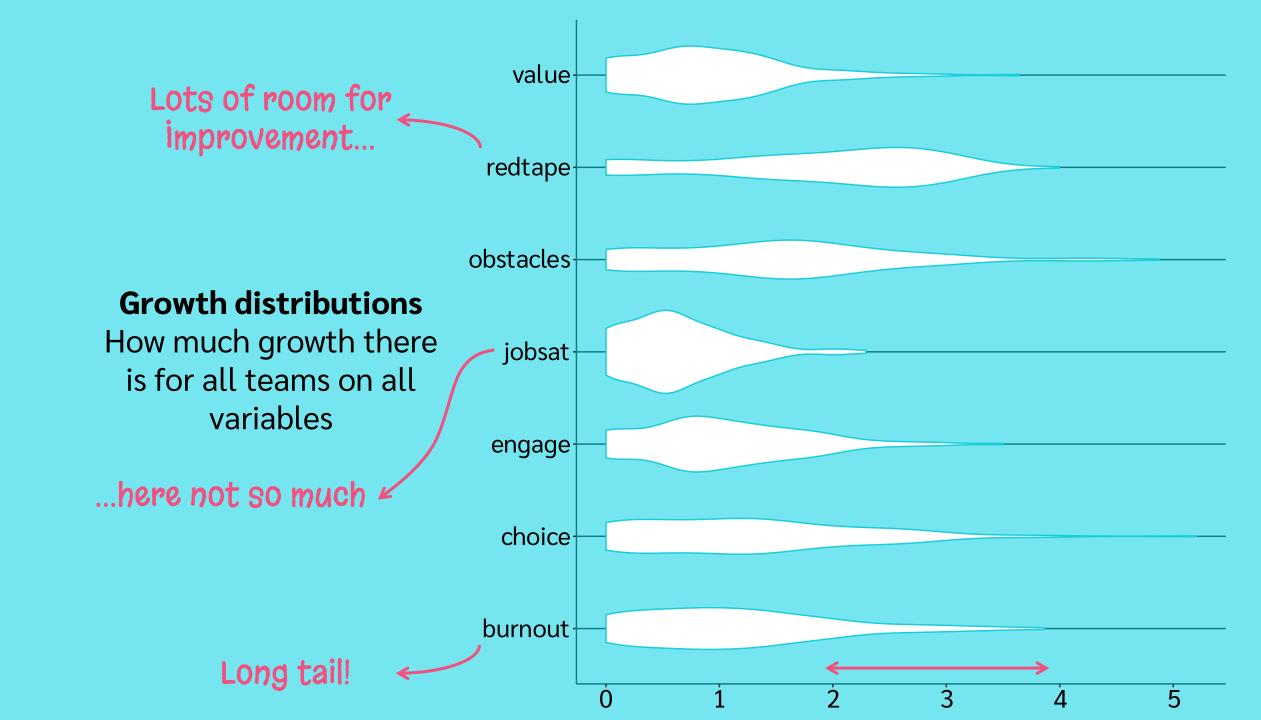
Calculate difference between a team scores and the comparison standard for all variables





Growth potential

Calculate difference between a team scores and the comparison standard for all variables





Weigh and rank growth potential using regressions

row means -

One model to rule them all

Multivariate regression with all ivs and dvs. Calculate average coefficients.

Choice Freedom

Obstacles

Red Tape

Valuable Work

jobsat	engage	burnout	
+.087	+.170	001	

absolute

overall

.142

.083

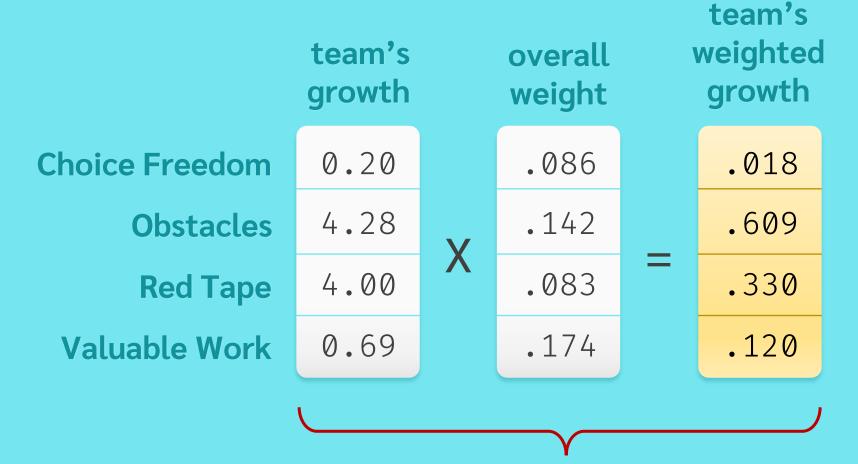
.174

Coefficients same for all teams



Weigh and rank growth potential using regressions

Calculate weighted growth for every team Multiply team's growth with overall averaged regression weights

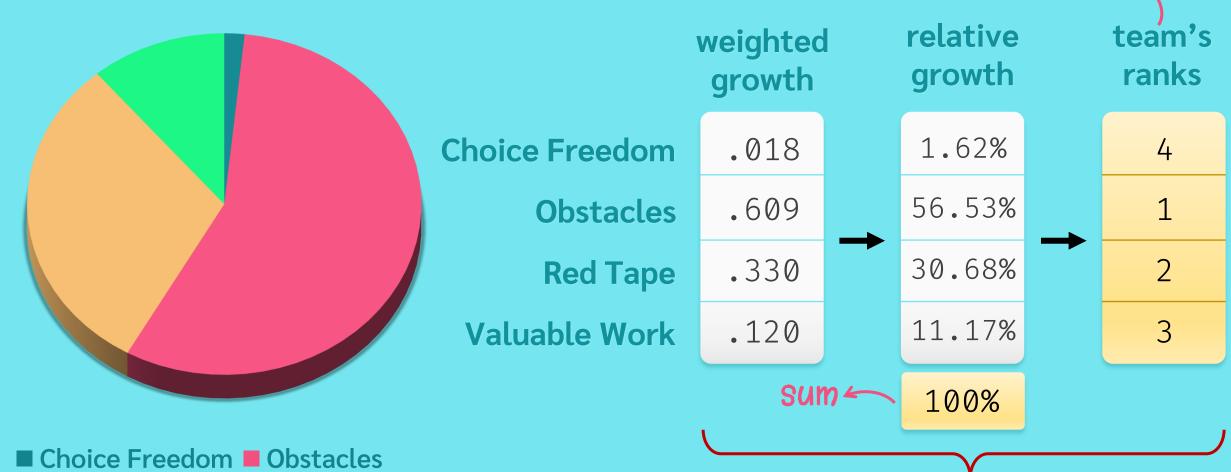


Calculate for every team
Here: "The Real Slim Shadies"



Weigh and rank growth potential using regressions

Used for recommended actions κ

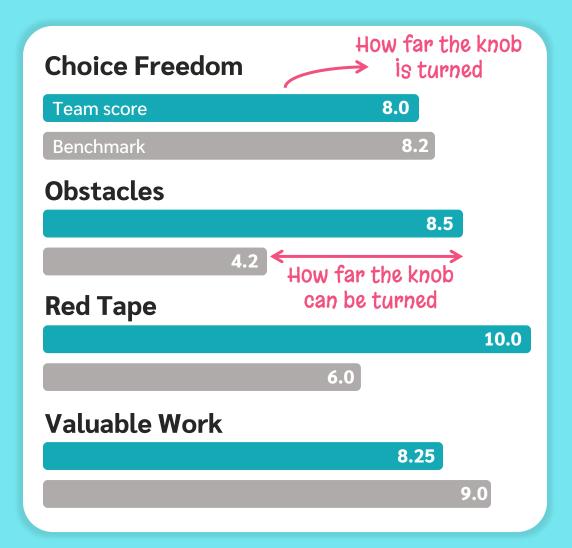


Red Tape

■ Valuable Work

Calculate for every team





Make actionable shortlists teams can put into practice to realize growth potential

1. Obstacles

Things at work that stand in the way of completing tasks and attaining goals

2. Red Tape

Burdensome and unnecessary rules

3. Valuable Work

Employees' perception that work is personally meaningful and interesting

4. Choice Freedom

Employees' perception they can make decisions in their work

Knobs in order they can best be turned to improve all outcomes the most



Discussion

Growth potential provides teams valuable insight into how they can improve important outcomes.

Limitations

- Requires a nesting (teams)
- Fit may vary slightly per team $(\hat{y} y)$
- Misses granularity due to averaging over coefficients

Future

- Multilevel regression feasible?
- Other approaches?
- ...?

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Thank you! Questions?

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