THE NET IMPACT OF REPACK

15.9.2020



EXECUTIVE SUMMARY

Objectives

- 1) Create an understanding of the net impact of RePack
- 2) Determine effective ways for RePack to utilise net impact data to gain business benefits
- 3) Define ways for RePack to continuously track and communicate its net impact and share its future improvement efforts

Methodology

The net impact profile of a company is based on the impacts of the products and services it provides.

The analysis was conducted with the Upright net impact model. The model utilizes scientific articles and machine learning to summarize how products, services, and companies impact the environment, health of people, society as well as creation and distribution of knowledge.

Read more: uprightproject.com/about/model

Key results

RePack contributes positively to the societal infrastructure by providing postal packaging materials. In addition, RePack contributes to creation of jobs and taxes.

The positive impacts are achieved by using relatively high amount of scarce human capital. The magnitude of this impact will reduce as the company grows.

Furthermore, RePack causes small amount of waste and emissions, however, the environmental impact is significantly lower than for companies producing disposable packaging.



CONTENTS

- 1. Objectives: what was pursued?
- 2. Methodology: how was the analysis conducted?
- 3. Results: what is the net impact of RePack?
- 4. Discussion: what is the so-what?



1. OBJECTIVES: WHAT WAS PURSUED?

OBJECTIVES OF THE COLLABORATION

1. UNDERSTAND NET IMPACT

Create an understanding of the net impact of RePack and how its products contribute to the overall profile

2. DETERMINE WAYS TO UTILIZE

Determine effective ways for RePack to utilise net impact data to gain business benefits

3. OUTLINE A WAY FORWARD

Define ways for RePack to continuously track and communicate its net impact and share its future improvement efforts

2. METHODOLOGY: HOW WAS THE ANALYSIS CONDUCTED?

UPRIGHT'S MISSION

INCENTIVIZE COMPANIES TO OPTIMIZE THEIR NET IMPACT.



WHO HOLDS THE POWER?

a.k.a. reasons for cynics to care, too

INVESTORS

"Where do I dedicate my equity i.e. which company do I **invest** in?"

CUSTOMERS

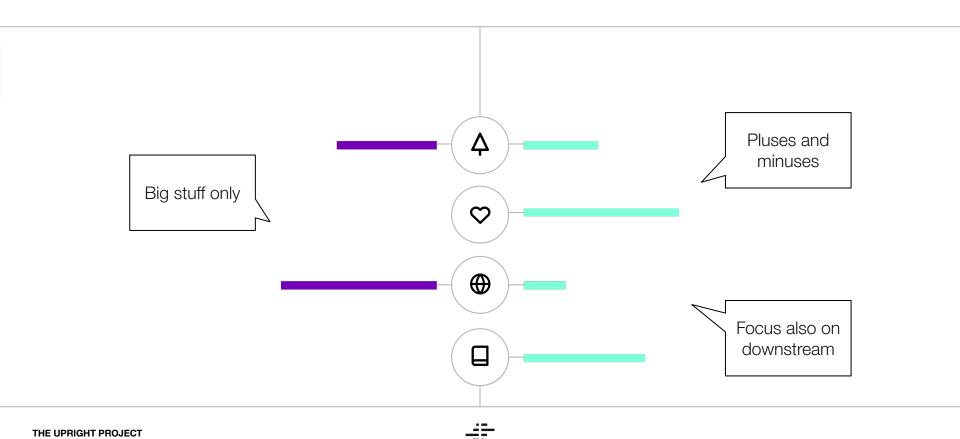
"Where do I dedicate my money i.e. which company do I **buy** from?"

EMPLOYEES

"Where do I dedicate my time i.e. which company do I work for?"



A NEW TYPE OF QUANTIFICATION MODEL TO BRING OUT THE SHAPE OF A COMPANY



PROBLEM

We do not understand how resources should be allocated in the 21st century capitalistic system in order to maximize the likelihood of survival of a thriving humankind and the planet we are inhabiting.



SOLUTION

Build a top-down model that allocates all positive and negative impacts/values caused by the private sector globally to real companies.



SUB-TASKS

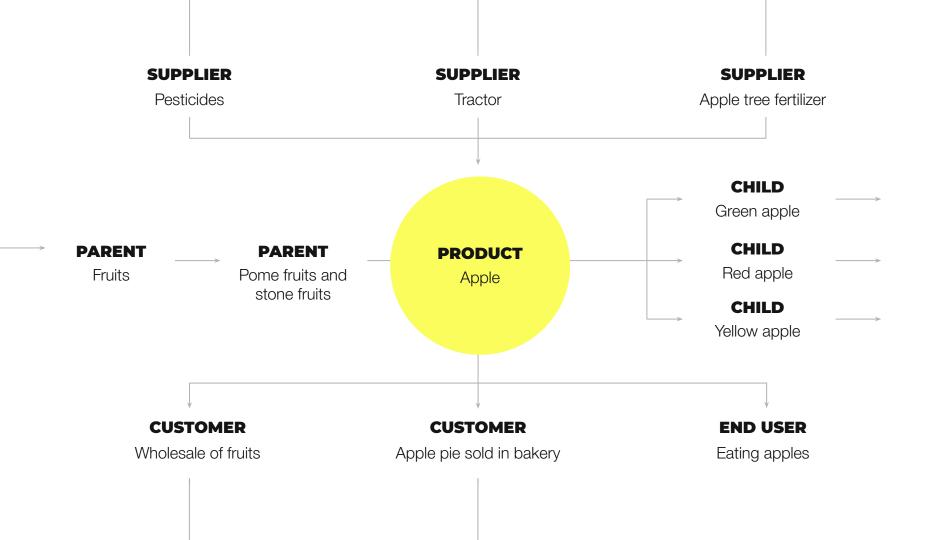
BUILD A
MODEL OF
NET VALUE
CREATION BY
COMPANIES

BUILD A MODEL OF NET VALUE CREATION BY COMPANIES

SUB-TASKS

1. DEFINE PRODUCTS

Build a network of all products and services traded globally and their links to one another (value chain relations, enablers, generalizations / specializations)



BUILD A MODEL OF NET VALUE CREATION BY COMPANIES

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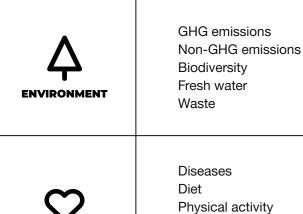
Build a network of all products and services traded globally and their links to one another (value chain relations, enablers, generalizations / specializations)

2. DEFINE IMPACT

Build a value creation grid aiming at covering all major positive and negative impacts companies have on the surrounding world

THE UPRIGHT MODEL CONSIDERS 19 IMPACT CATEGORIES IN 4 DIMENSIONS

Impacts can be negative and positive





HEALTH

Taxes
Jobs
Societal infrastructure
Equality
Societal stability

Relationships

Meaning & joy



Scarce human capital Knowledge infrastructure Creating knowledge Distributing knowledge

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3. ATTRIBUTE IMPACT

Attribute 100 % of each impact caused by companies globally to each node in the above mentioned network

CLASSIFICATION OF SCIENTIFIC ARTICLES

135M+ scientific articles

from CORE database + datasets from e.g. IPCC and OECD

- Deep neural network based on BERT* from Google Research
- Pre-trained with the full Wikipedia corpus for transfer learning
- Trained with 35,000+ articles manually classified by Upright

INPUT

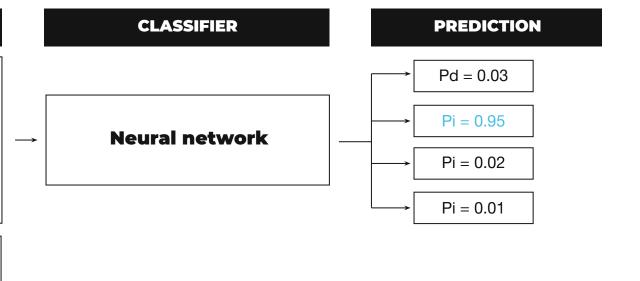
impactTerm: cancer

productTerm: tobacco

abstract: this study

investigates the effects of smoking in adolescents in ...

correctLabel: |



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Build compositions consisting of products and services, weighing with revenue contributions, to form companies

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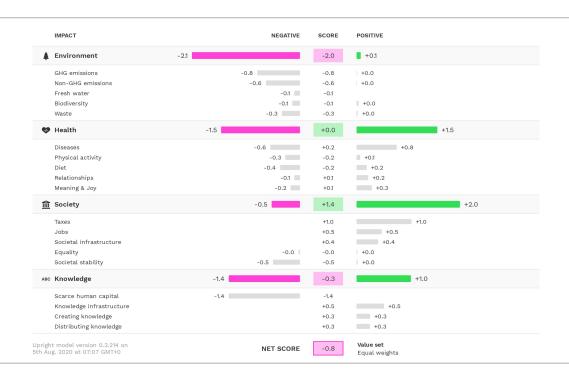
Build compositions consisting of products and services, weighing with revenue contributions, to form companies

+ FORM COMPANY GROUPS

Build compositions consisting of companies, weighing with funds invested/loan size/revenue/etc, to form funds/portfolios/industries/company groups/etc

BEFORE JUMPING INTO THE RESULTS: WHAT DOES "NORMAL" LOOK LIKE?

Aggregate net impact profile of US Fortune 500



More impact profiles available at https://model.uprightproject.com/

3. RESULTS: THE NET IMPACT OF REPACK

REPACK'S IMPACT IS BASED ON THE IMPACTS OF THE PRODUCTS AND SERVICES IT PROVIDES

680 000 € REVENUE (2020)

4 PRODUCTS & SERVICES

15 EMPLOYEES (2020)

Main product:

 Reusable postal packages made of recycled plastic

Contributing products (minor weight in the product set):

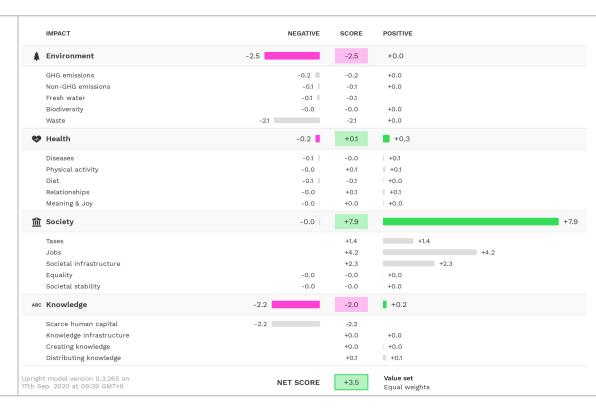
- Promotion services
- IT support services
- Customer analytics services



NET IMPACT PROFILE OF REPACK

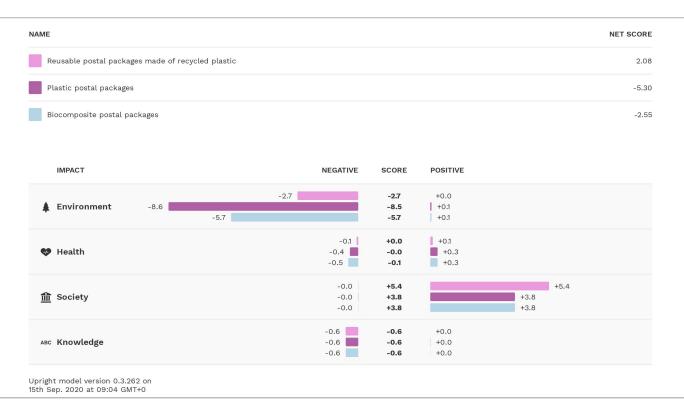
RePack has a strong contribution to the society while causing only little strain on the environment

- All businesses use some environmental resources and create emissions throughout their lifecycle. RePack creates **small amount of waste and emissions**, however, the environmental impact is significantly lower than for companies producing disposable packaging.
- RePack's impact on health related issues is minimal.
- RePack contributes to society through jobs and taxes paid. As a startup, RePack creates lots of new jobs compared to its revenue. Postal packages enable postal services, which are part of essential societal infrastructure.
- Scarce human capital illustrates the opportunity cost of scarcely available human capital. RePack employes highly educated workforce, but this is well compensated for on the positive side.





REPACK PROVIDES AN ENVIRONMENTALLY SOUND ALTERNATIVE TO DISPOSABLE PACKAGING PRODUCTS



Comparing different types of postal packages reveals **differences** especially in **GHG and waste** impact categories.

Reusability of packaging also increases a product's positive score in the Society dimension for two main reasons:

refurbishment of used packaging provides jobs
each package can be used multiple times, resulting in a larger positive score on societal

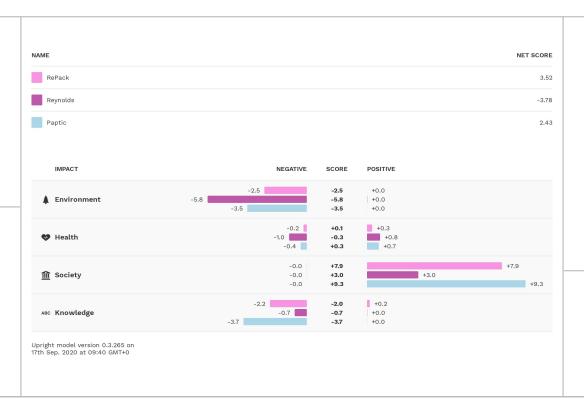
infrastructure

REPACK'S PROFILE STANDS OUT POSITIVELY IN COMPARISON TO OTHER PACKAGING MATERIAL MANUFACTURERS

In the environment dimension, the biggest difference can be seen in the **waste** category.

Reynolds' main material is plastic, which creates more severe environmental impacts.

Paptic produces packaging materials from wood-fibre biocomposite, which reduces its waste and GHG impact. However, Paptic's products are disposable.



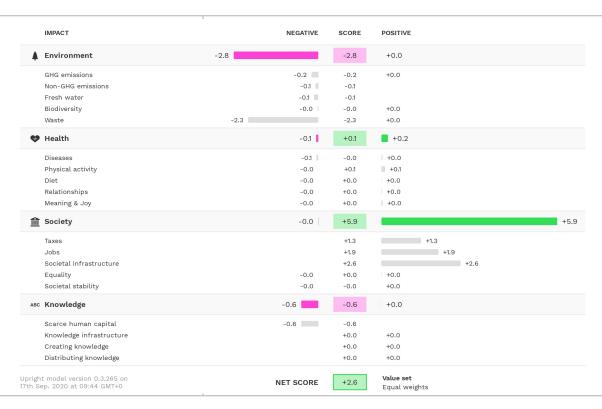
NB: these are **relative scores**, so groups and companies of different sizes can be compared.

As RePack and Paptic are both small and newly-established companies, they create **more jobs relative to revenue**. This results in a higher score in the Society dimension.



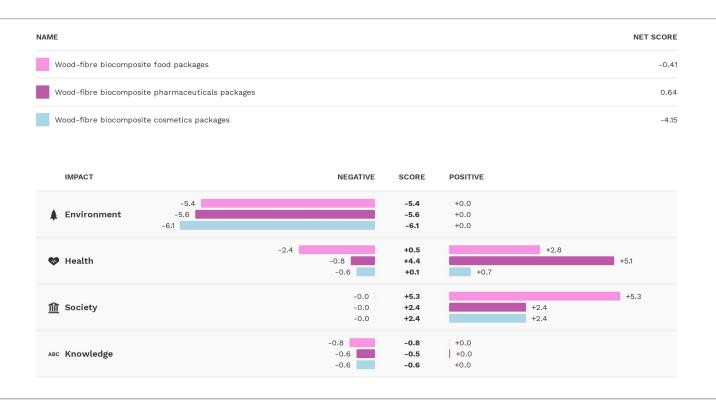
NET IMPACT PROFILE OF REPACK - FUTURE SCENARIO

In an imaginary future scenario for Repack (10 mil.€ revenue + 100 employees), the role of jobs and scarce human capital decreases



NET IMPACT OF A PACKAGE DEPENDS ON WHERE IT'S BEING USED

RePack can improve its impact even further by focusing on net positive customer segments



An **exemplary comparison** between food, pharmaceuticals and cosmetics packaging made of wood-fibre.

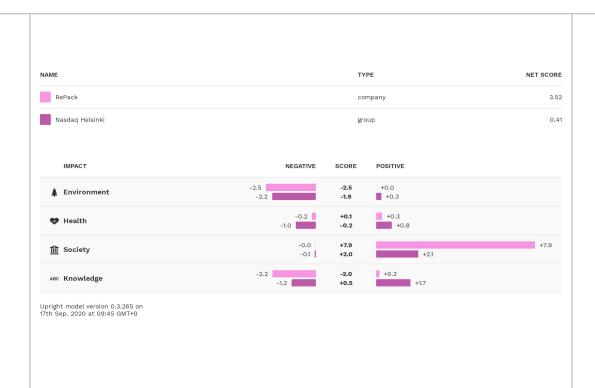
Upright model also considers the downstream impacts, i.e. the impacts of a company's customers such as food or pharmaceutical companies.

As can be expected, food and pharmaceuticals have a bigger positive impact on health than for example cosmetics.

COMPARISON TO NASDAQ HELSINKI REVEALS TYPICAL DIFFERENCES BETWEEN STARTUPS AND MORE ESTABLISHED COMPANIES

Nasdaq Helsinki includes e.g. companies working in the health sector (such as Orion and Terveystalo), leading to a positive impact in the health category.

On the other hand, companies such as Neste and HKScan have negative effects on health through production of fossil fuels and meat products, respectively.



NB: these are **relative scores**, so groups and companies of different sizes can be compared.

Per revenue created, Repack provides significantly more jobs than an average Nasdaq Helsinki company.

Telecommunications companies in Nasdaq Helsinki lead the positive impact on **knowledge infrastructure.**



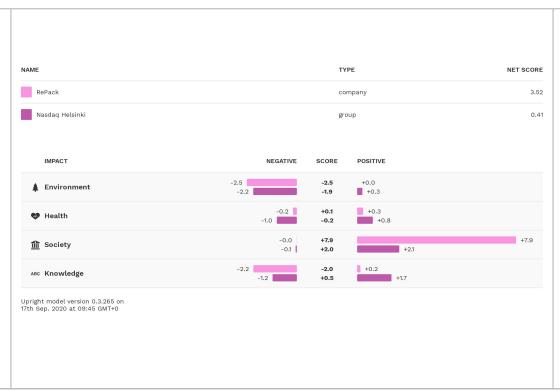
VALUE SETS CAN BE USED TO ASSESS HOW STAKEHOLDERS MIGHT VALUE DIFFERENT IMPACTS

Equal weights value set

Comparing RePack to Nasdaq Helsinki company group through **equal weights** value set.

This is the default value set.

Nasdaq Helsinki is a revenue-weighted group of companies listed in Nasdaq Helsinki.



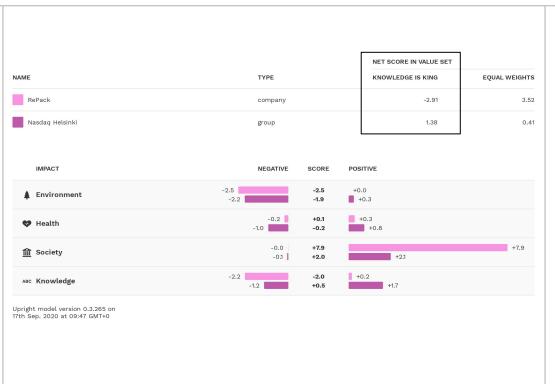


VALUE SETS CAN BE USED TO ASSESS HOW STAKEHOLDERS MIGHT VALUE DIFFERENT IMPACTS

Value set emphasizing the knowledge category

Comparing RePack to Nasdaq Helsinki company group through a value set emphasizing knowledge impacts.

Through this lens, the net score of RePack drops.





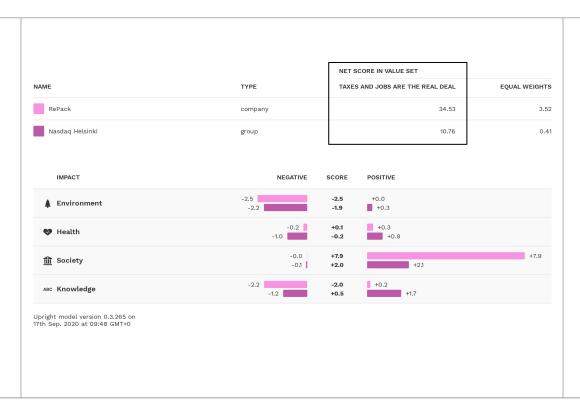
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Value set emphasizing taxes and jobs

Comparing RePack to Nasdaq Helsinki company group through a value set emphasizing taxes and iobs.

Through this lens, both RePack and Nasdaq Helsinki are strongly net positive.

Different value sets highlight that the net score depends on one's values. Therefore dividing companies into good or bad is not meaningful.





4. DISCUSSION: WHAT IS THE SO-WHAT?

UTILIZING NET IMPACT QUANTIFICATION TO BENEFIT REPACK'S BUSINESS AND SUSTAINABILITY DISCUSSION

What implications does the net impact data have on RePack's own understanding of its value creation?

COMMUNICATIONS

- Highlight RePack's positive impact on society and on the environment compared to other packaging providers
- Set net impact targets and track progress over time
- Tie different initiatives and targets around positive net impact
- Communicate positioning, targets and key initiatives to stakeholders (customers, investors, employees, others)

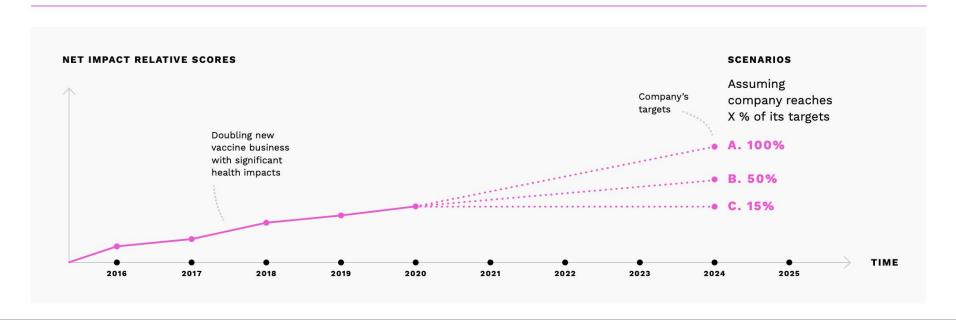
STRATEGY

- How does RePack's net impact change when the business changes?
- How does RePack's net impact change when the world changes?
- How do RePack's customers affect the net impact?
- Are there choices that remain "safer bets" under future scenarios than others?



SETTING IMPACT TARGETS AND MEASURING IMPACT OVER TIME

Example: Development of a company's net impact over time



NET POSITIVE NORDICS: PHASE 2

Future scenarios with net impact: how do global future scenarios and our business growth scenarios go together?

Questions addressed:

How does your company's net impact change under five global future scenarios?

Are there choices that remain "safer bets" under all scenarios than others?

How do your own future business scenarios play together with global changes?

What risks and opportunities arise for investors to be more resilient to global changes?

https://www.uprightproject.com/net-positive-nordics#phase2

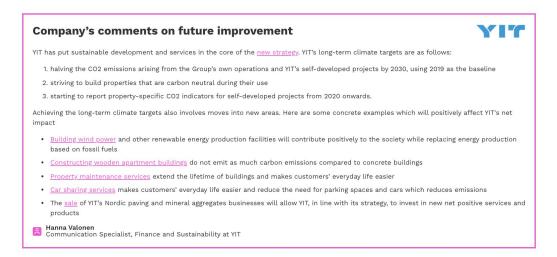
UPRIGHT - PROJECT

Example: YIT's net impact profile including own commentary.



Key take-aways

- The societal infrastructure stands out in the profile because YIT builds, for example, apartment buildings, train transport infrastructure and sewage systems which are essential for modern societal infrastructure
- Constructing hospitals, schools and parks helps to treat and prevent diseases, sustain biodiversity, increase physical activity and helps people to build relationships, which shows as a positive impact on the health and environment categories.
- · On the other hand, the small negative impact on diseases come from potential injuries during construction projects.
- · The negative environmental impacts arise from construction projects and using materials that cause emissions and waste.



TIMELINE FOR RePack

Step 1 (today)	RePack's net impact workshop
Step 2 (Sep 30th)	Sign up deadline of Net Positive Europe with Global Scenarios
Step 3	Communicate net impact and strategic positioning internally and publicly
Step 4	 Start tracking net impact progress over time Set net impact targets



