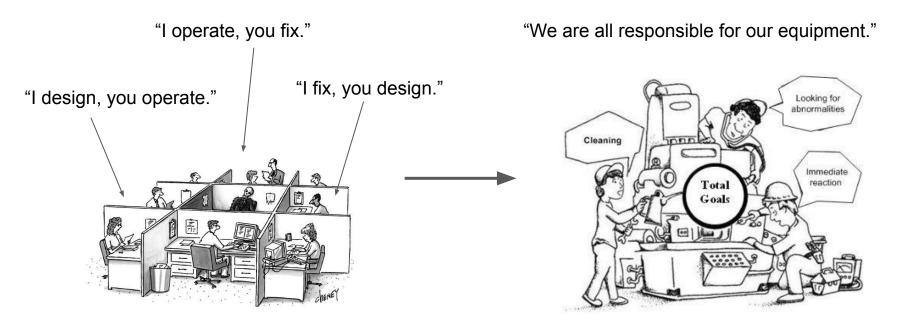
# **Metoda TPM**

.Achieving full-self management r/wallstreetbets

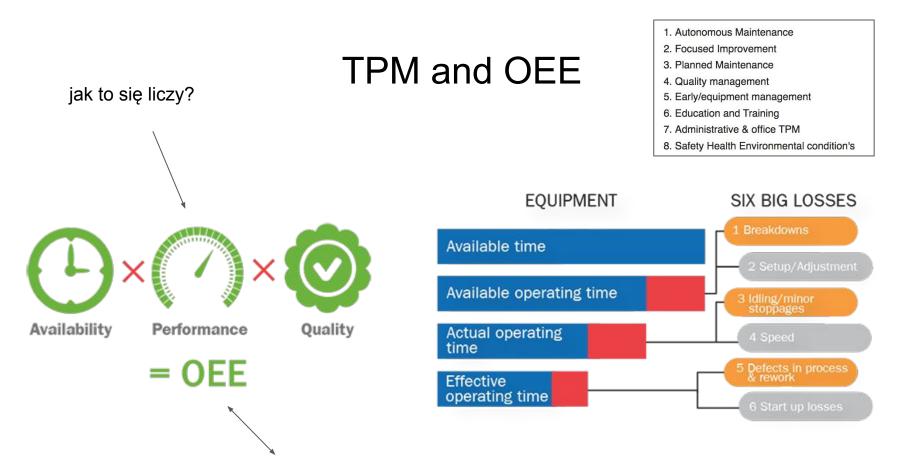
### **OLD Approach**

#### **TPM**



poszukamy na kolejnych slajdach analogii w informatyce...

Reference: https://www.ame.org/sites/default/files/TPM-introduction-AME.pdf



in tech startups -> "site reliability engineering"



**Total Scrap** 

Products v Solutions v





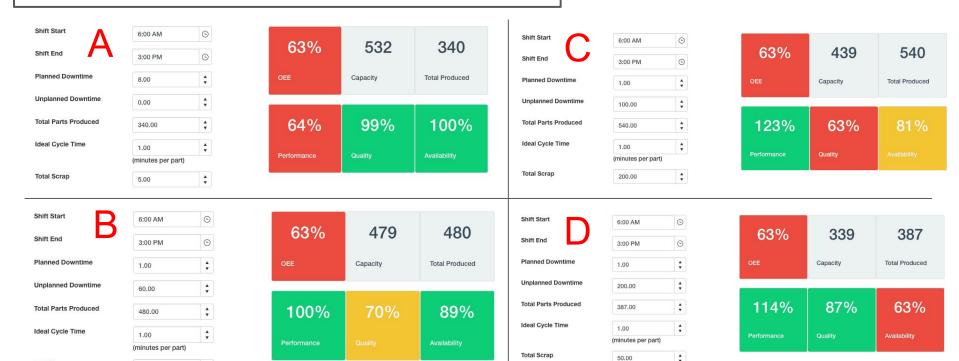
### OEE is a <u>Flawed Manufacturing Metric</u>. Why the Same OEE Number Can Mean Very Different Things.

by Lindsey Andrews | Sep 16, 2019 | OEE

143.00

#### **ONLINE CALCULATOR:**

https://www.sensrtrx.com/calculate-oee/



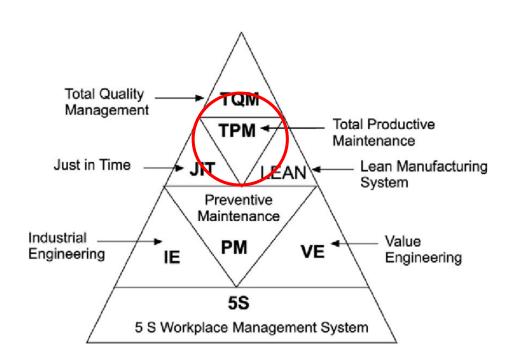
### Typical OEE Values

- An OEE score of 100% is perfect production.
- An OEE score of 85% is world class for discrete manufacturers.
- An OEE score of 60% is fairly typical for discrete manufacturers.
- An OEE score of 40% is not uncommon for manufacturers without TPM and/or lean programs.



#### The 5s foundation

- Sort (eliminate anything that is not truly needed in the work area)
- Set in Order (organize the remaining items)
- Shine (clean and inspect the work area)
- Standardize (create standards for performing the above three activities)
- Sustain (ensure the standards are regularly applied)



#### 12cm w TPM / co ono oznacza?

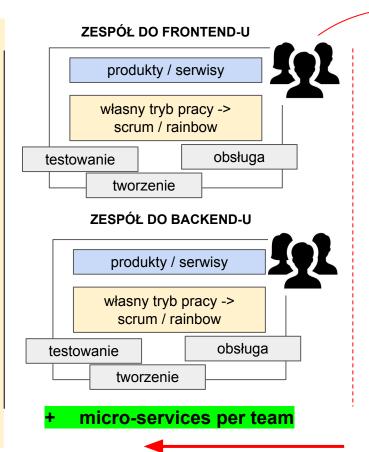
#### **KLASYCZNY MODEL**

zależy od typu biznesu

Zespół do testowania

Zespół do **tworzenia** 

Zespół do obsługi

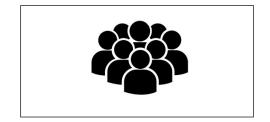


Ale gdy poważny problem?

ZESPÓŁ DO TESTOWANIA



ZESPÓŁ DO BAZ DANYCH



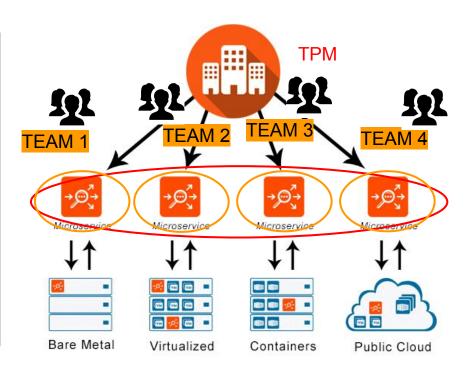
chcemy jak największej "samodzielności"...

### Management vs Product (czyli rozbijamy monolit)

Monolithic Architecture

Microservices Architecture



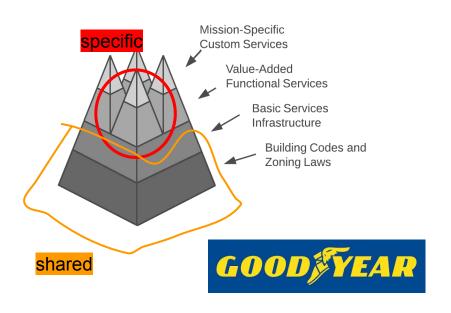


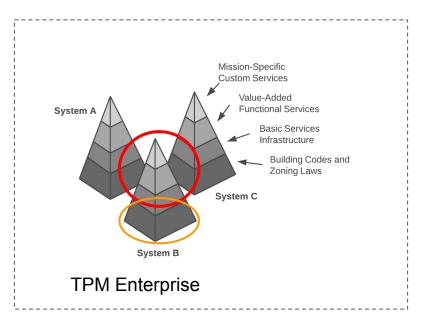


można rozbić produkt <-> zamiast rozbijać odpowiedzialność

**Applications** 

#### Stovepipe Enterprise ~= near TPM





#### Etymology [edit]

The term **functional silo syndrome** was coined in 1988 by Phil S. Ensor (1931–2018) who worked in organizational development and employee relations for Goodyear Tire and Rubber Company and Eaton Corporation, and as a consultant. "Silo" and "stovepipe" (as in "stovepipe organization" and "stovepipe system") are now used interchangeably and applied broadly. Phil Ensor's use of the term "silo" reflects his rural Illinois origins and the many grain silos he would pass on return visits as he contemplated the challenges of the modern organizations with which he worked. [4][5][6][7]

### TPM - Zalety i wady

## Pozytywy

- Szybsza komunikacja/działanie -> bo wewnątrz zespołu
- 2) Redukcja mniejszych problemów (takich które pracownik sam potrafi rozwiązać)
- Potencjalna redukcja kosztów przez wyłapanie defektów wcześnie -> zapobieganie spektakularnym porażkom









#### **Negatywy**

- "skomplikowane problemy" wymagają i tak większej uwagi - innego np. zespołu
- Nowi pracownicy / stażyści ciężej się odnajdują (bo od razu muszą być dobrzy we wszystkich rejonach działania zespołu)
- 3) Spada poziom umiejętności w firmie "wszyscy" potrafią "wszystko" (jack of all trades, master of none)
  - -> co może prowadzić do spektakularnych porażek

### Przykład #1





team odpowiedzialny za prowadzenie pojazdów - nie testował mechaniki w "Night City" (grze na produkcji) tylko na torze testowym

#### 500 people

The game was **developed** using the REDengine 4 by a team of around 500 **people**, exceeding the number that worked on the studio's previous game The Witcher 3: Wild Hunt (2015).

Number of employees: 1,111 (2019)

dużo małych zespołów





#### 150 people

The company developed The Witcher 3: Wild Hunt with a self-funded budget of US\$81 million over three-and-a-half years. The project began with 150 employees, eventually growing to over 250 in-house staff. 1,500 people were involved in the production globally.

bardziej "zwarte" zespoły pokrywające wiedza cala gre

### Przykład #2



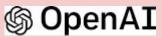


#### Typical Job Planned On-the-Run (Time)

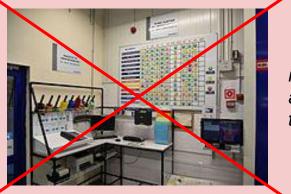
Same job if Professionally Planned (Time)



mały zespół i TPM daje rade -> automatyzacji / dobremu planowaniu (wsparcia OpenAI)



Artificial intelligence company



no boards! app tells you what to do...

Thank you for your attention:)

r/wallstreetbets