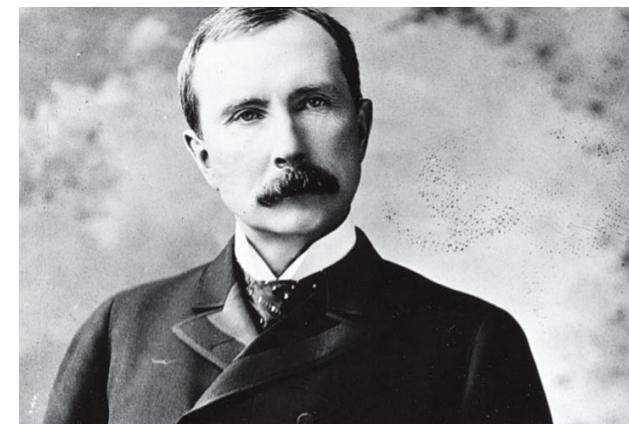


Hodnota informací a dat v rámci BIM metody.

- Pavel Lacina
 - » Individuální člen CZ BIM
 - » V současnosti CM firmy Dalux (Denmark)
 - » Práce na mezinárodních projektech (koordinace FF&E pro hospitality)
 - » 5 let praxe s implementací BIM nástrojů typu CDE a Field management.
 - » V posledních 2 letech externí konzultant na BIM projektu v Třinci.

„Motor světa +150 let“



„Změna pravidel za >10 let“

Data jsou novou ropou.

„Data driven economy“



Stavebnictví se mění také digitalizací >> BIM

- Digitalizace stavění
- „Více za méně“
- Sdílení informací rychleji
- 3D projekční práce.
- Standardizace datové výměny
- Virtuální stavění (modelování)
- Lepší forma spolupráce
- Blockchain
- Stavebnictví 4.0

>> Každý se na to dívá z pohledu své praxe.

Digitalizace stavebnictví

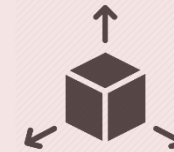
- Etapa 0 >> 1980 – 2000

2D



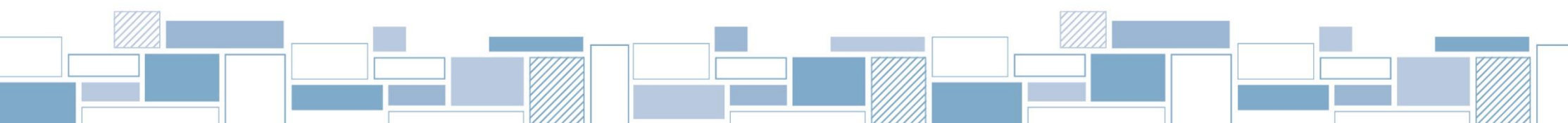
- Etapa 1 >> BIM Level 2

3D – nD

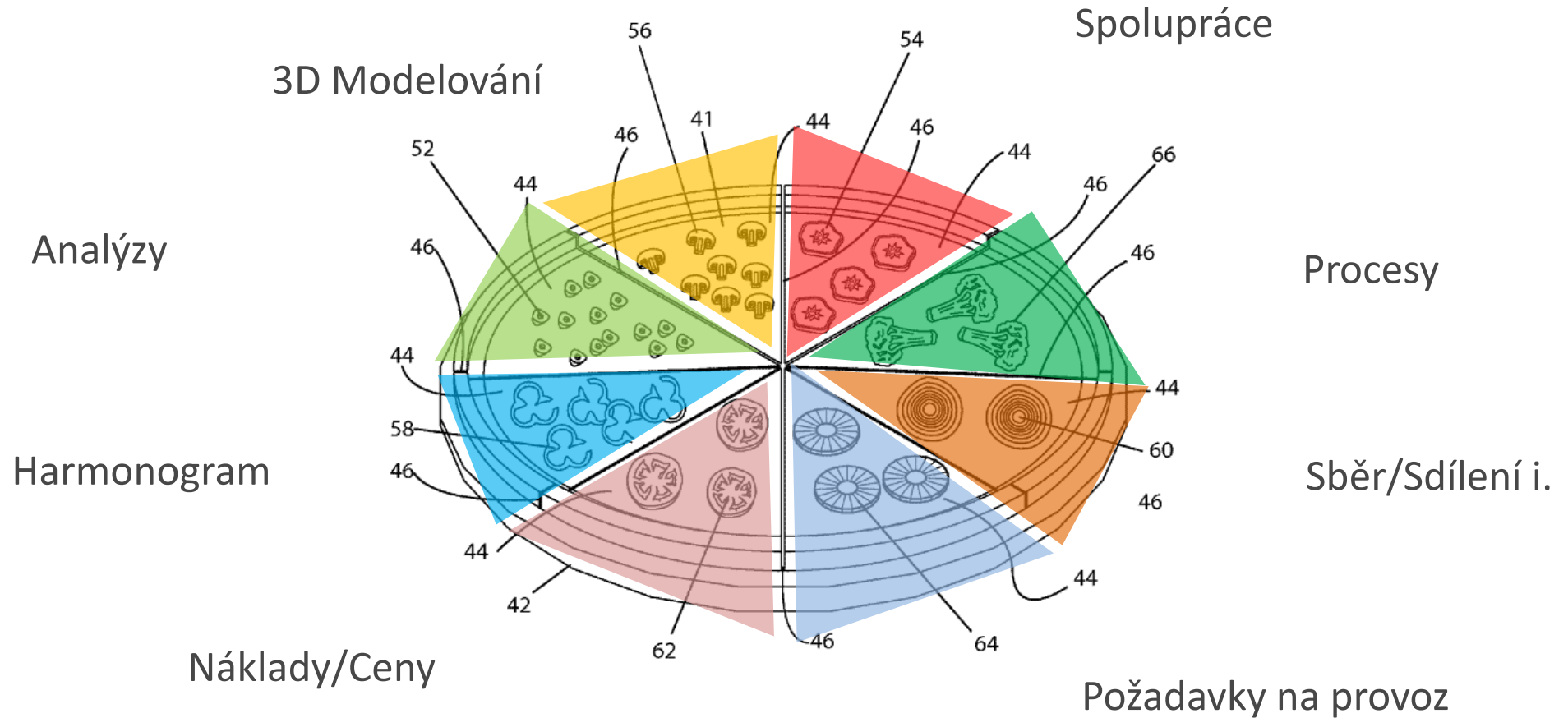


- Etapa 2 >> BIM Level 3

the Future



BIM pizza informací



BIM pizza

Design BIM

Analýzy

Harmonogram

Náklady/Ceny

3D Modelování

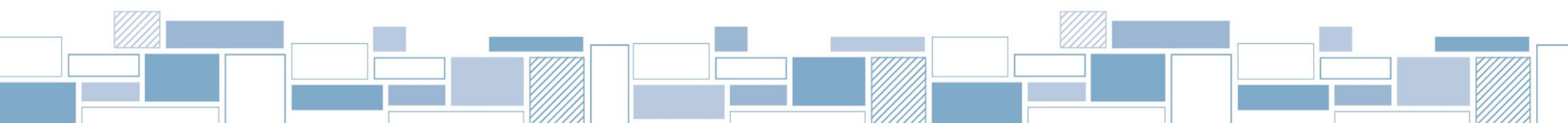
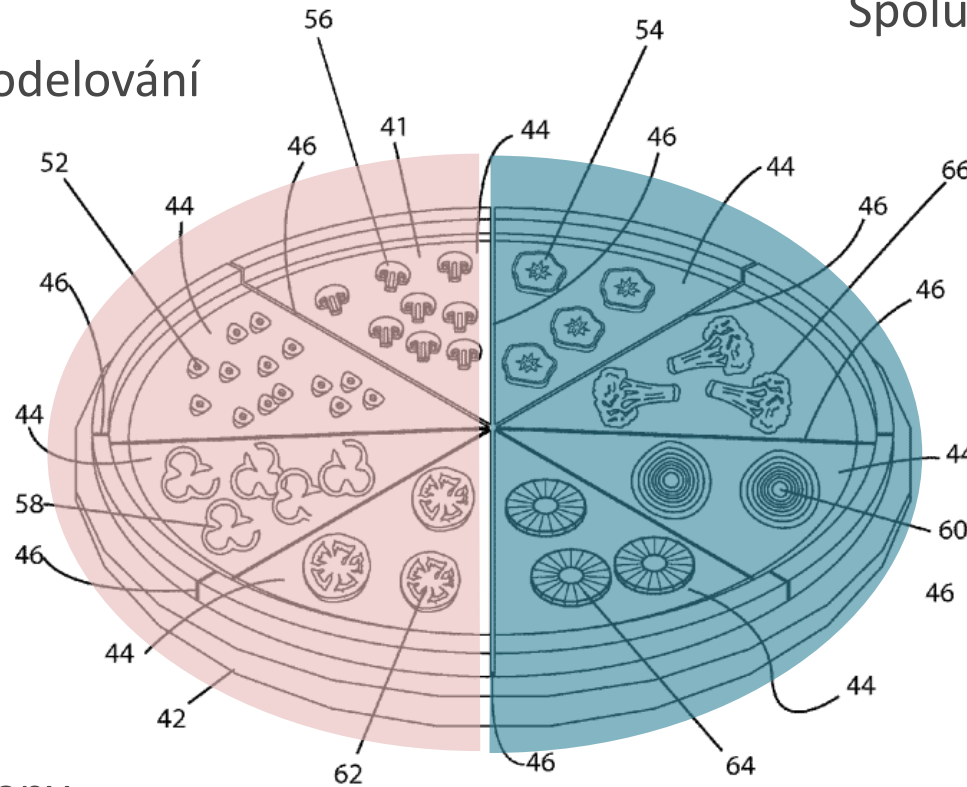
Spolupráce

Proces BIM

Procesy

Sběr/Sdílení i.

Požadavky na provoz



Design BIM vs. Proces BIM

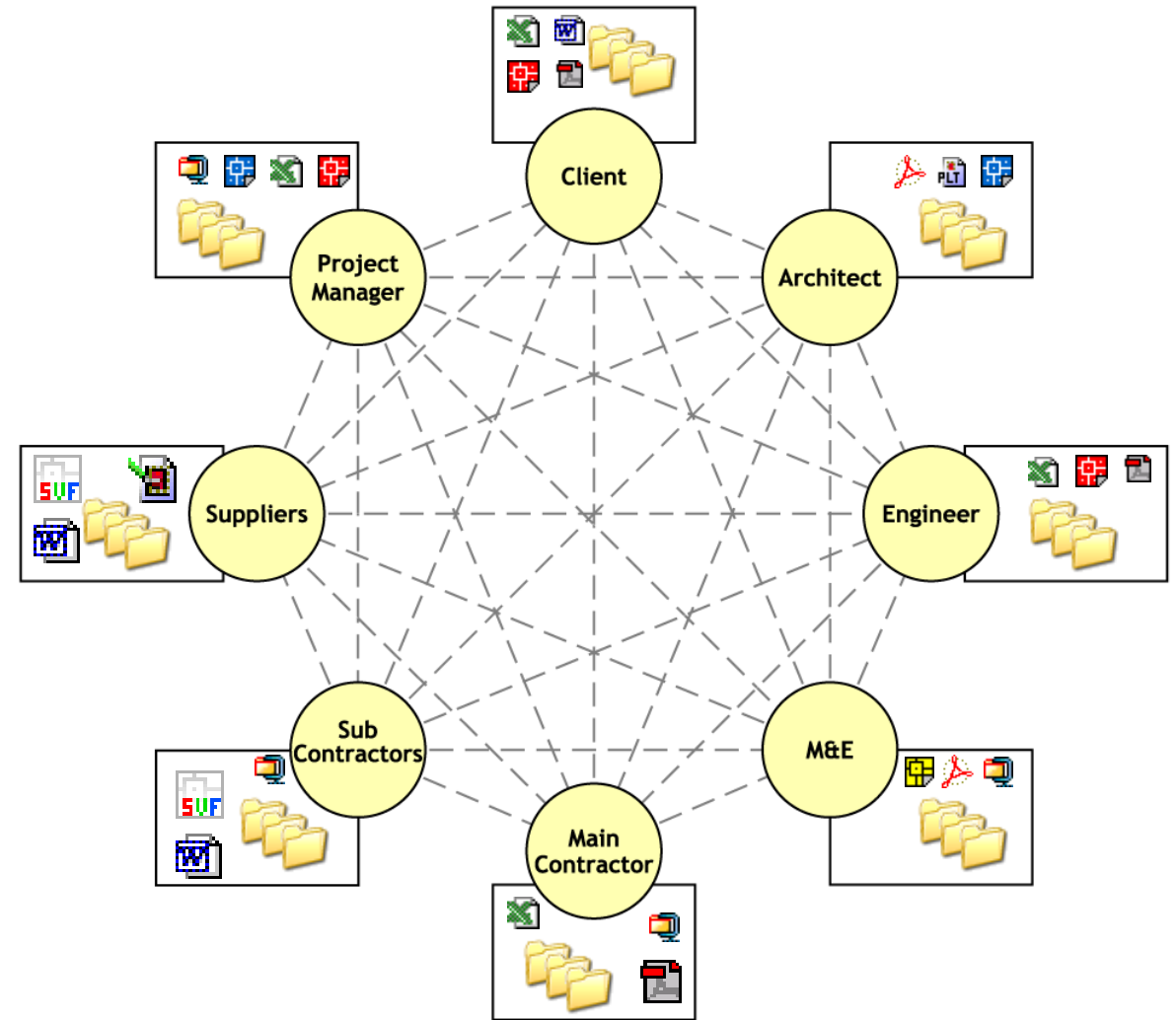


Design BIM vs. Proces BIM



Sleeper	Default	Mon	Fri
A00001	885	885	885
A00002	885	885	885
A00003	885	885	885
A00004	885	885	885
A00005	885	885	885
A00006	885	885	885
A00007	885	885	885
A00008	885	885	885
A00009	885	885	842
A00010	885	885	885
A00011	885	885	885

Kde jsou potřebné informace

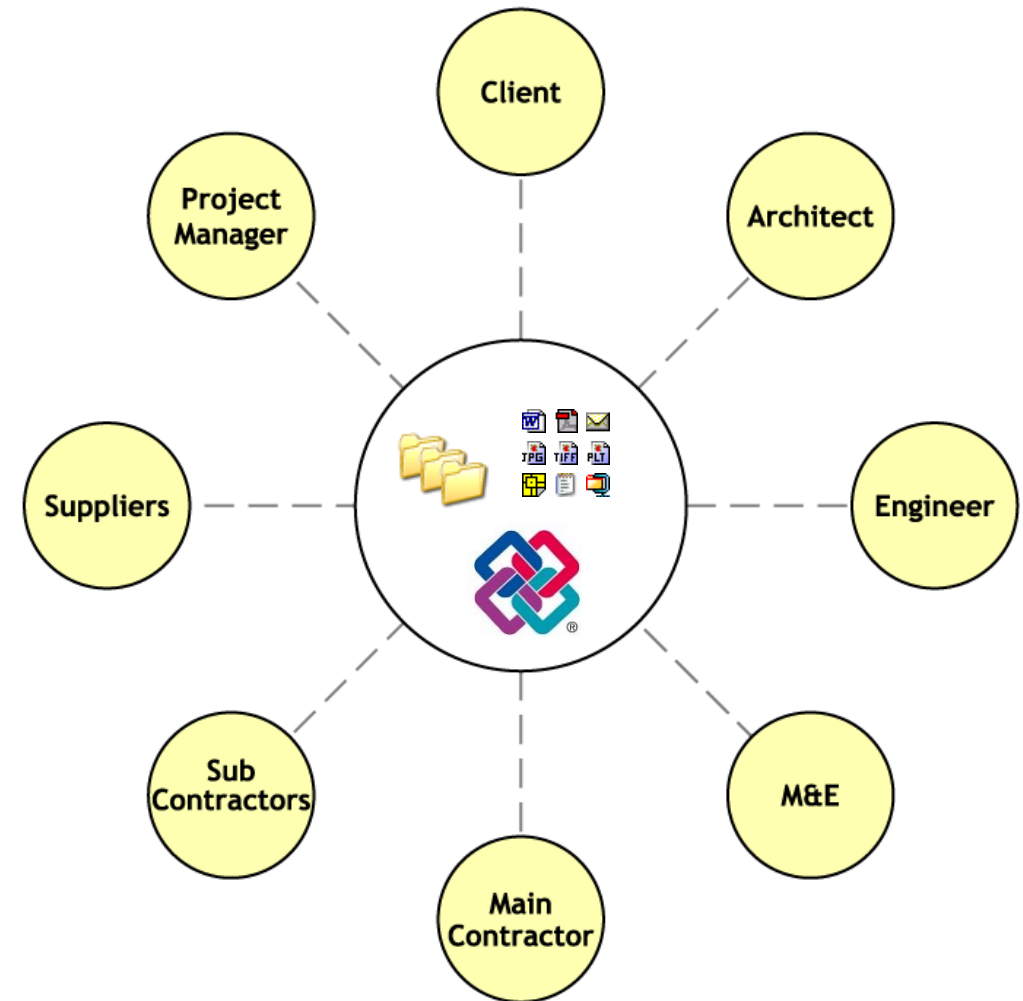


Proces BIM - Změna formy spolupráce

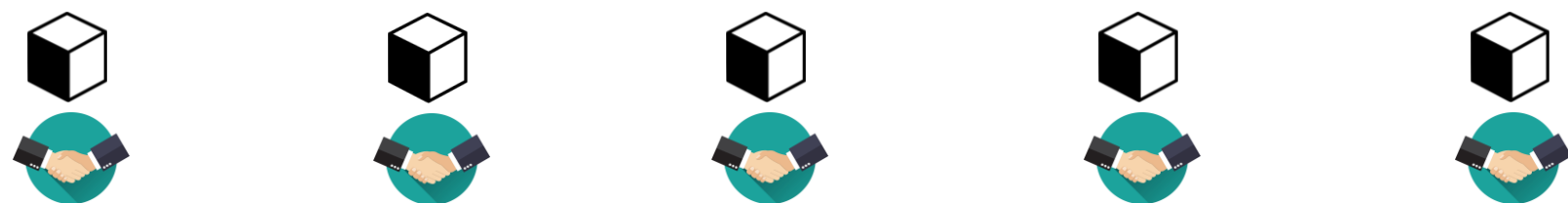
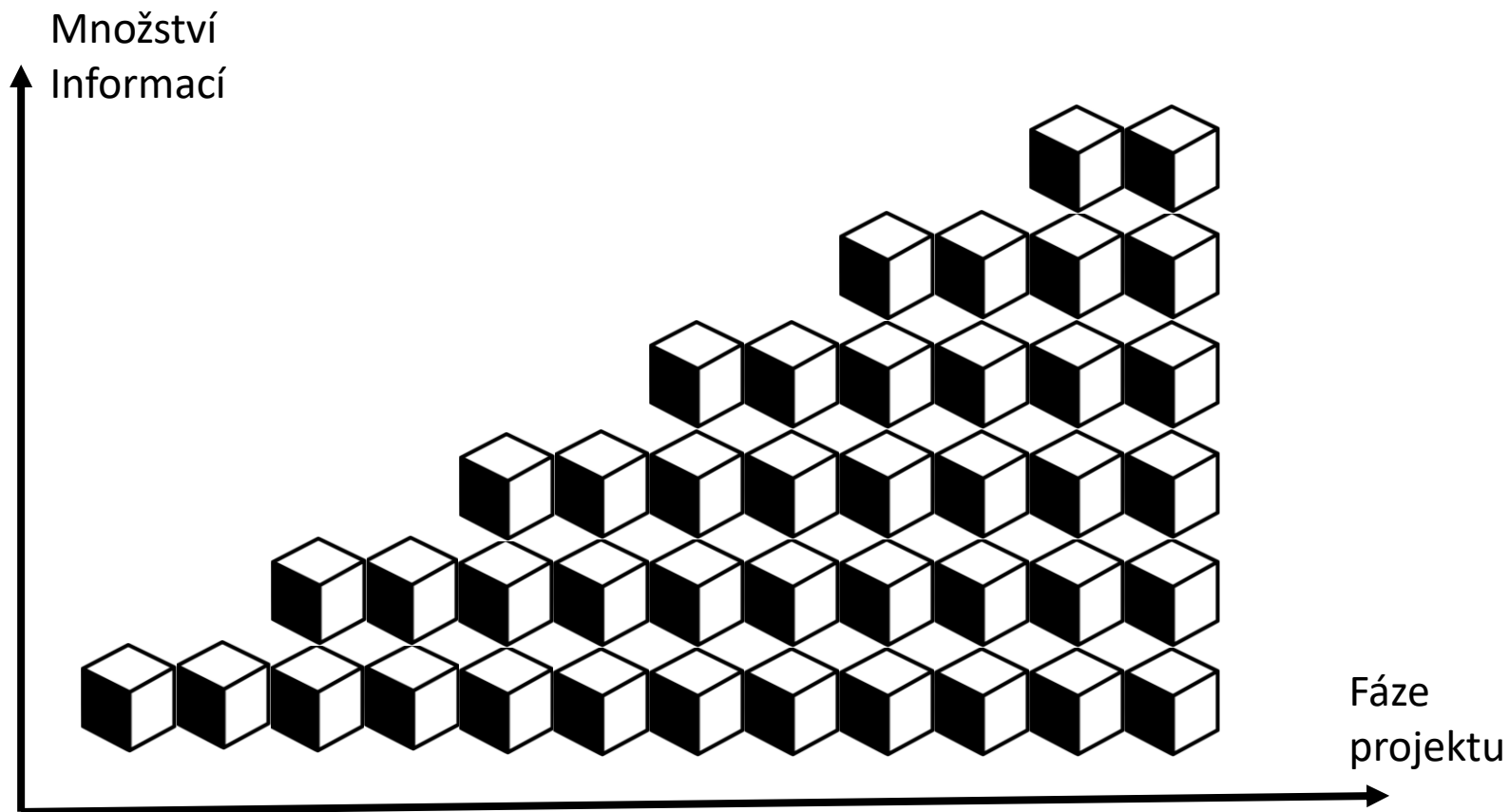
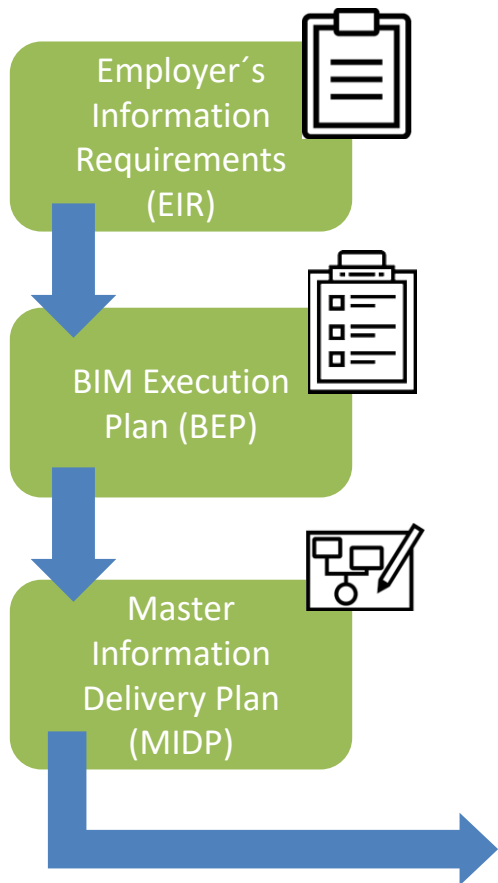
- » „Soubor je příliš veliký“
- » „informace se ke mně nedostala“
- » „dal jsem Vás do kopie“
- » „e-mail ohledně změny mi nedorazil“
- » „bohužel jsme pracovali s neaktuální informací“
- » „nevím, kde ta informace je, ale někde určitě bude“
- » „...toto mi nikdo neřekl“
- » „...o tomto jsem vůbec nevěděl“

Digitalizace spolupráce

- Jedna veze pravdy.
 - » Jedna verze informací pro celý projektový tým
 - » Rychlé vyhledávání.
 - » Audit projektu.
- Data v rámci jednotlivých fází se neztrácí a mají mnohem větší „znovu-využitelnost“.
- Menší spotřeba papíru.



Proces BIM

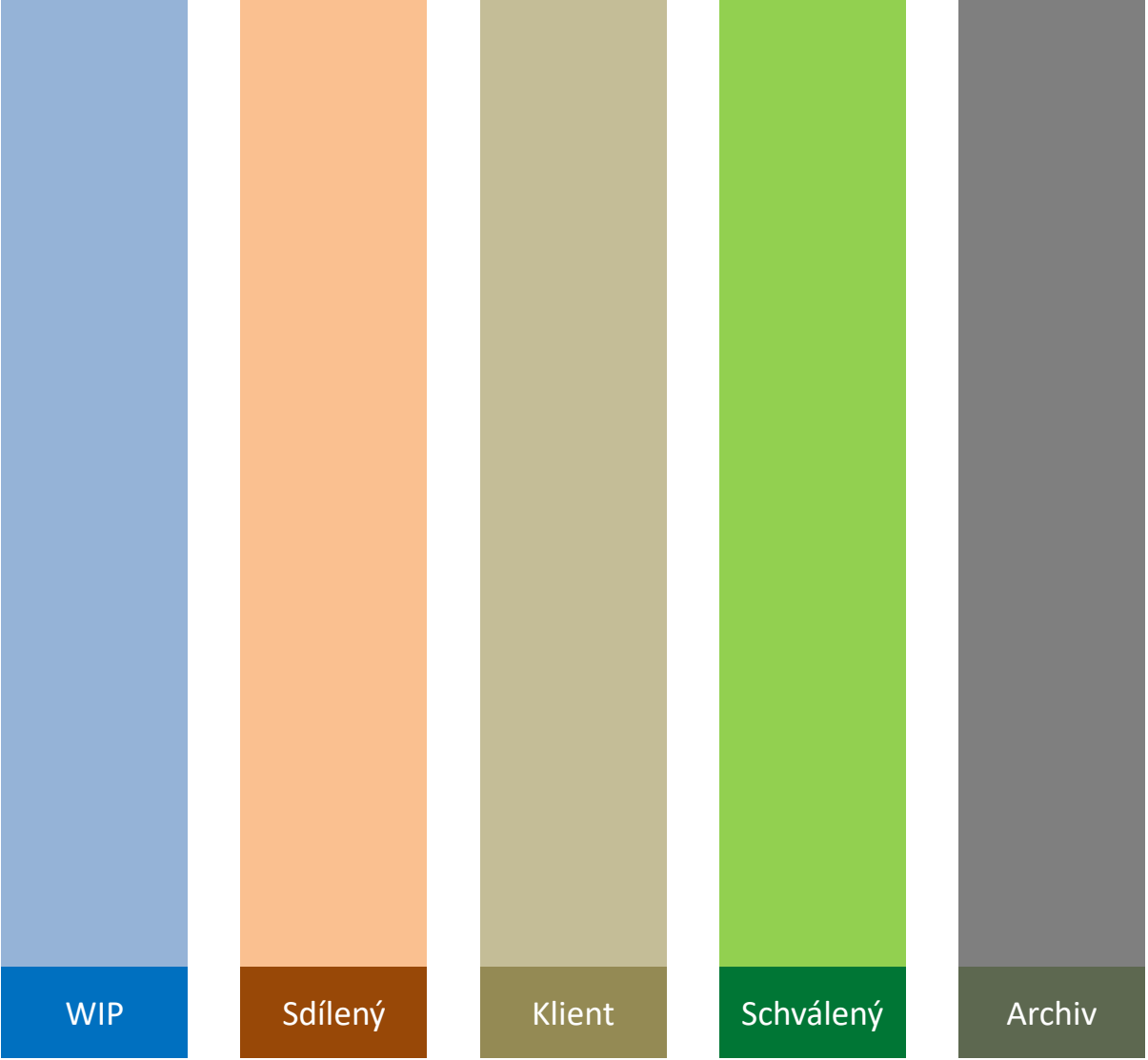


Task Team A

Task Team B

Task Team C

Client Team D

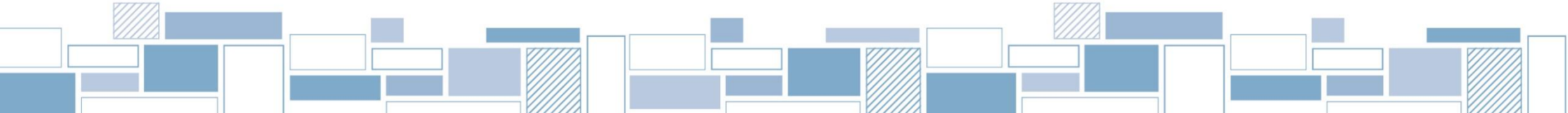


Autor informace

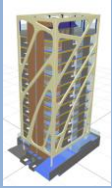
Task Team manager

Project BIM manager

Klient



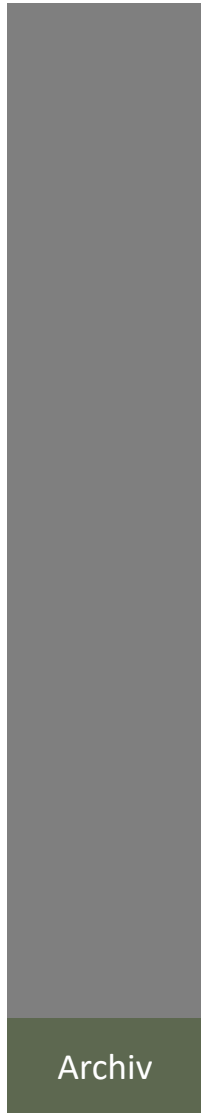
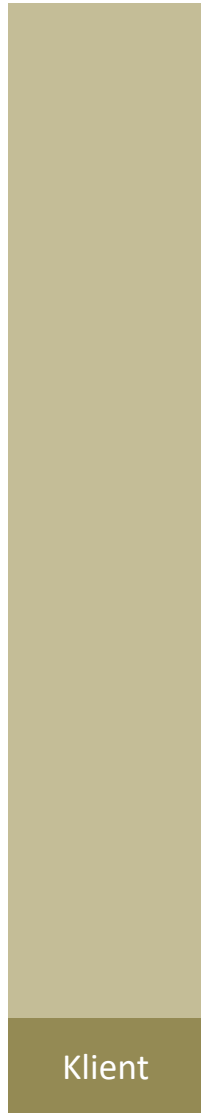
Task
Team A



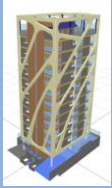
Task
Team B

Task
Team C

Client
Team D



Task
Team A



Task
Team B

Task
Team C

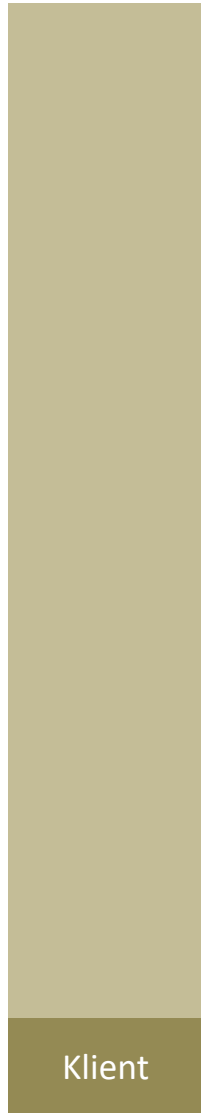
Client
Team D



WIP



Sdílený



Klient



Schválený



Archiv



Autor informace



Task Team manager



Project manager



Klient / manager



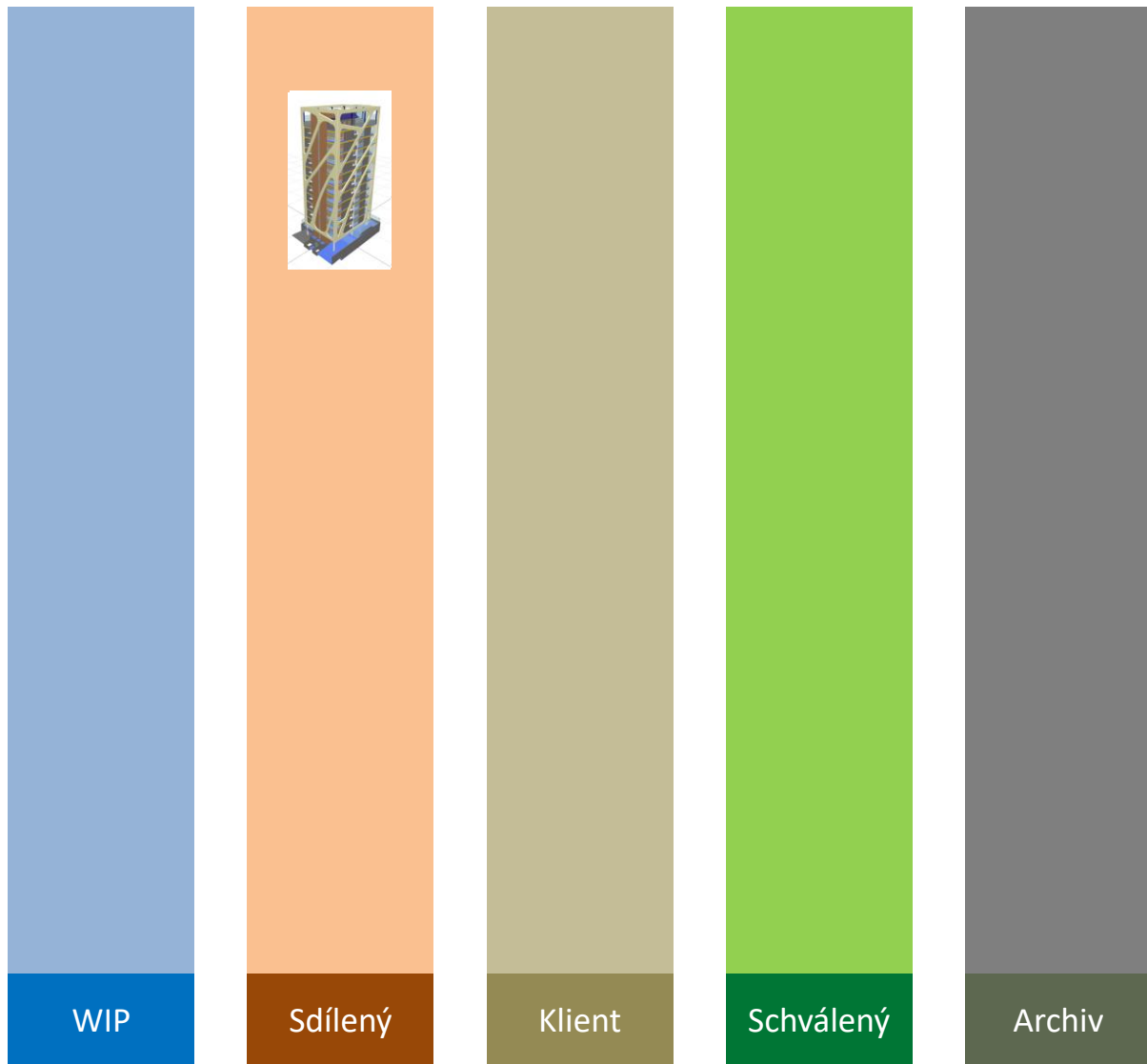
Odborná rada pro BIM
Czech BIM Council

Task Team A

Task Team B

Task Team C

Client Team D




Autor informace


Task Team manager


Project manager


Klient / manager

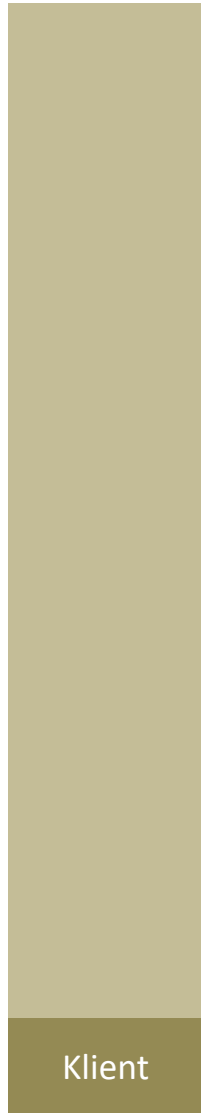
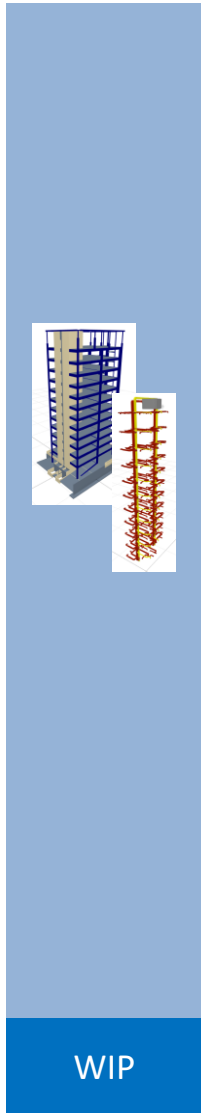


Task Team A

Task Team B

Task Team C

Client Team D




Autor informace



Task Team manager



Project manager



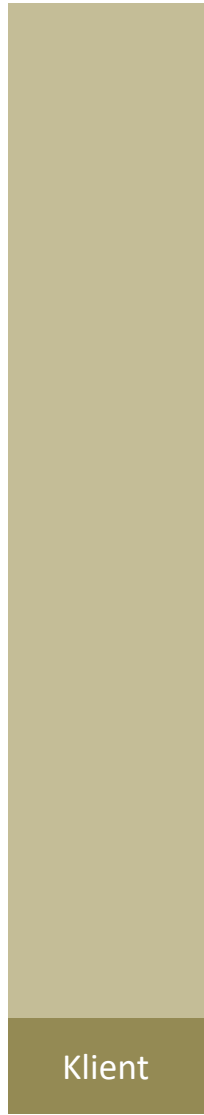
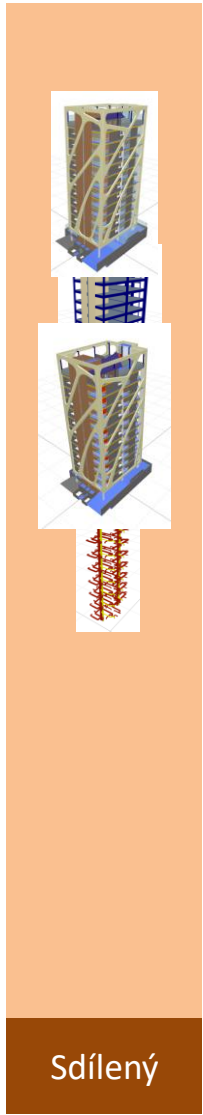
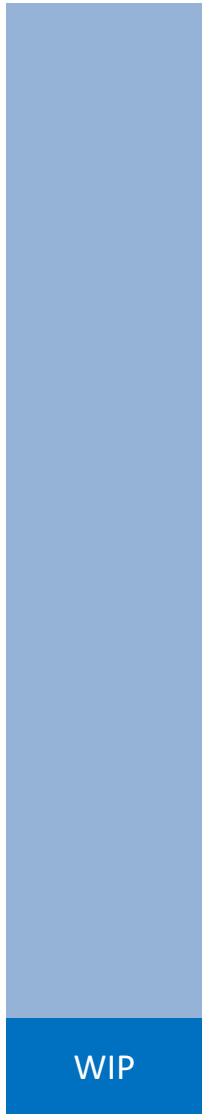
Klient / manager

Task
Team A

Task
Team B

Task
Team C

Client
Team D




Autor informace


Task Team manager


Project manager

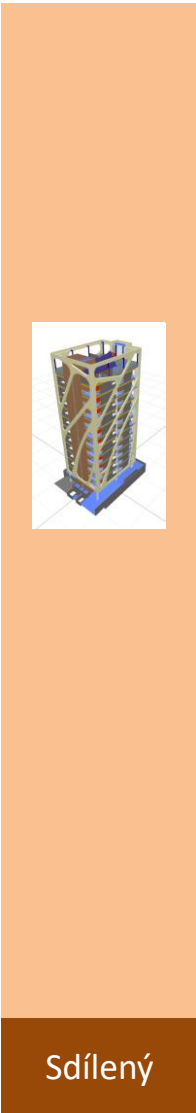

Klient / manager

Task Team A

Task Team B

Task Team C

Client Team D




Autor informace


Task Team manager


Project manager

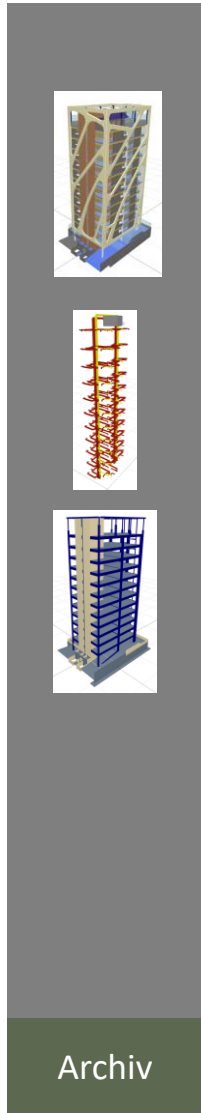
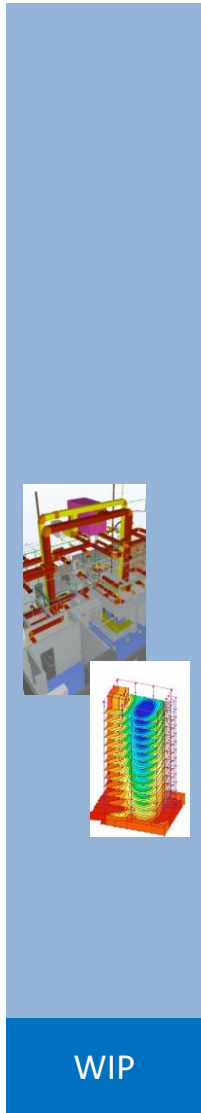

Klient / manager

Task Team A

Task Team B

Task Team C

Client Team D

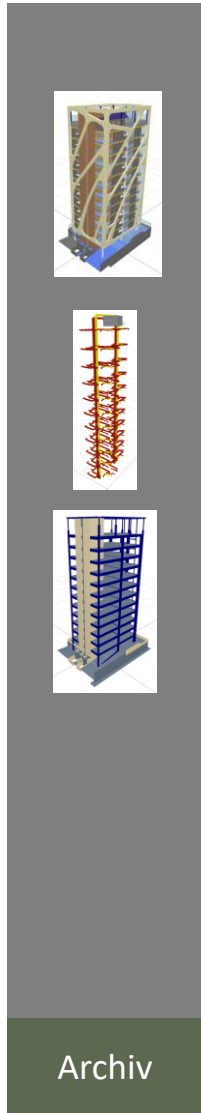
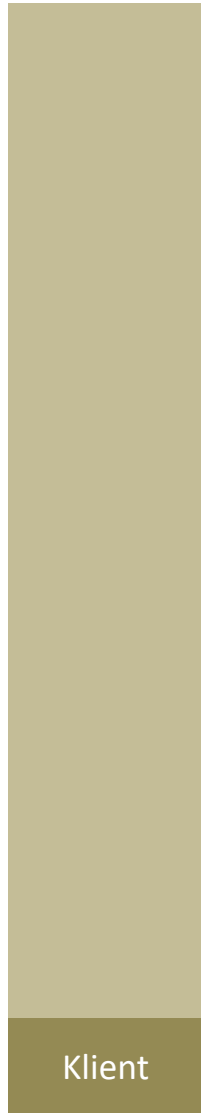
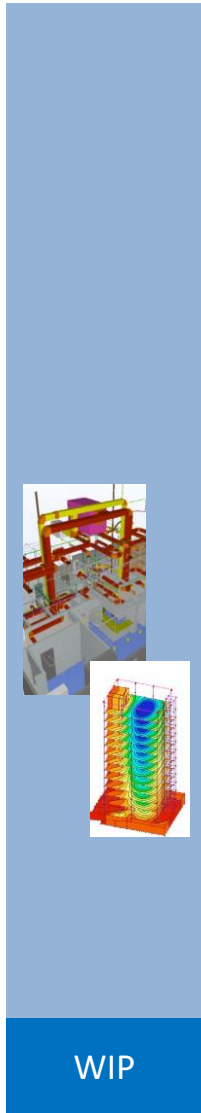


Task Team A

Task Team B

Task Team C

Client Team D




Autor informace



Task Team manager



Project manager



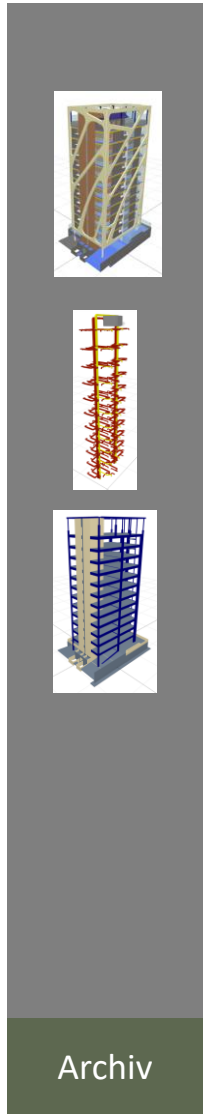
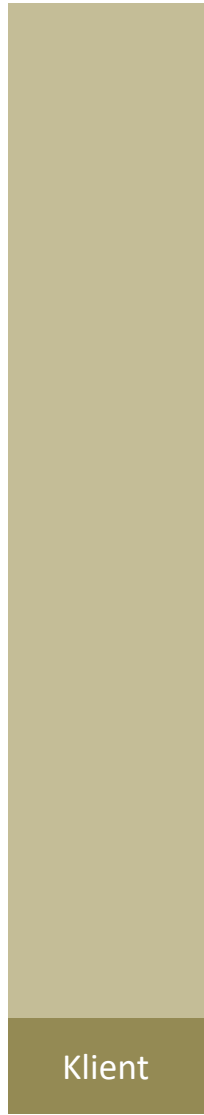
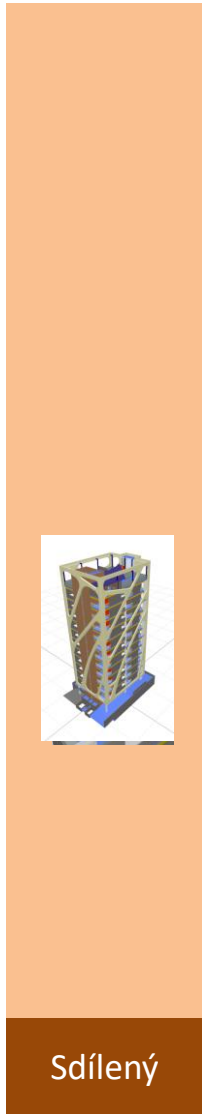
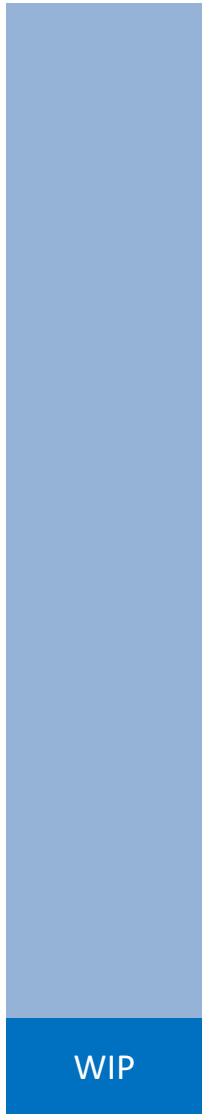
Klient / manager

Task Team A

Task Team B

Task Team C

Client Team D




Autor informace


Task Team manager


Project manager

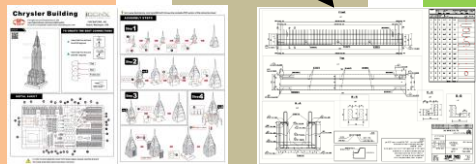
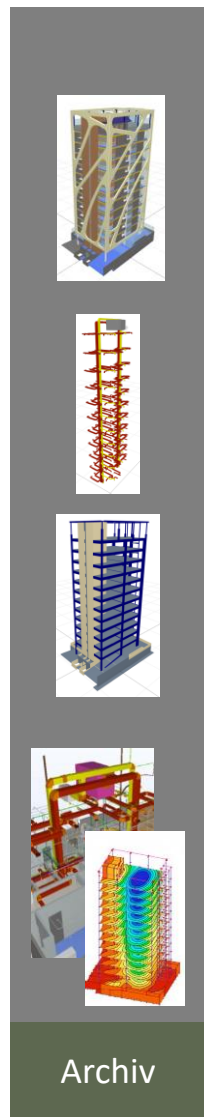
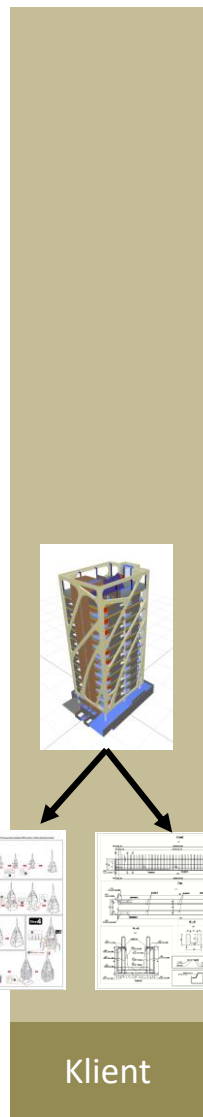
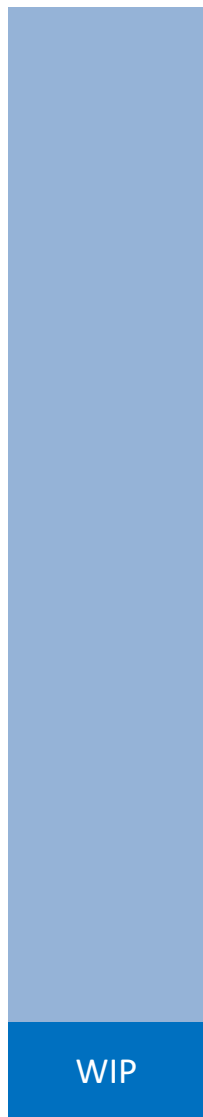

Klient / manager

Task Team A

Task Team B

Task Team C

Client Team D



WIP

Sdílený

Klient

Schválený

Archiv


Autor informace


Task Team manager


Project manager

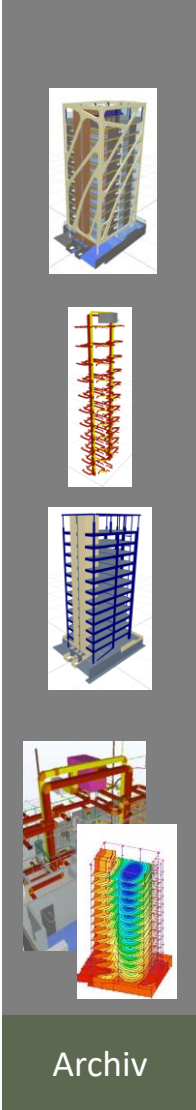
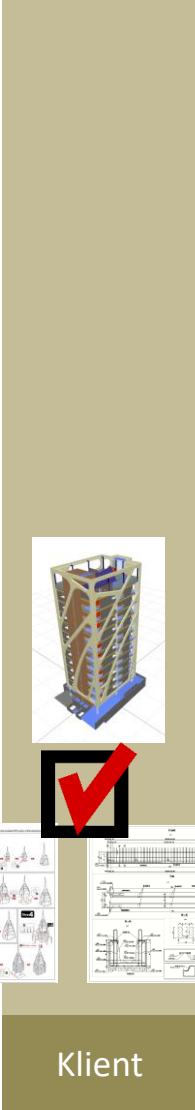

Klient / manager

Task Team A

Task Team B

Task Team C

Client Team D



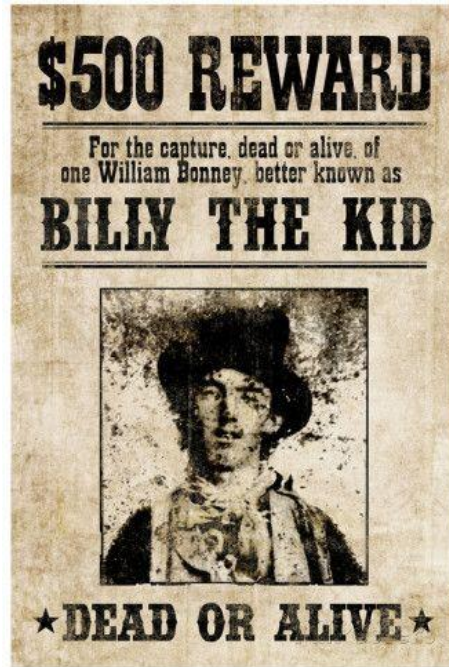
Ten, kdo změní pravidla hry

Rolls-Royce now earns more from tasks such as managing clients' procurement strategies and maintaining the aerospace engines it sells than it does from manufacturing them.

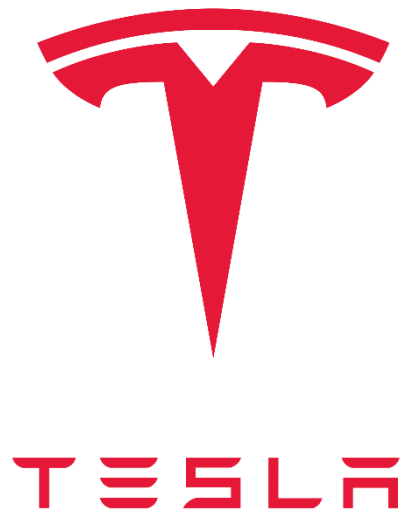
The Economist (2014)



Soumrak bank



Tesla



Za 8 let od IPO:

- » Vygenerovala zisk pouze ve 2. Q.
- » Hodnota akcií stoupla o téměř 2000%.
- » Tržní hodnota je 56,7 mld. USD
- » Prodává celkem 3 modely aut.

Side Walk Labs

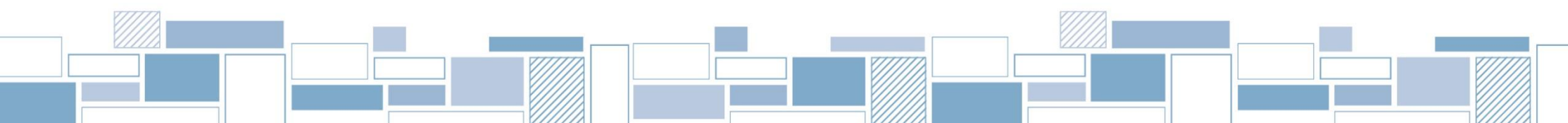
SIDE WALK LABS



- » Waterfront District Toronto
- » Alphabet Inc.
- » „people can't afford to wait“
- » „serve as a beacon“

Side Walk Labs

SIDE WALK LABS

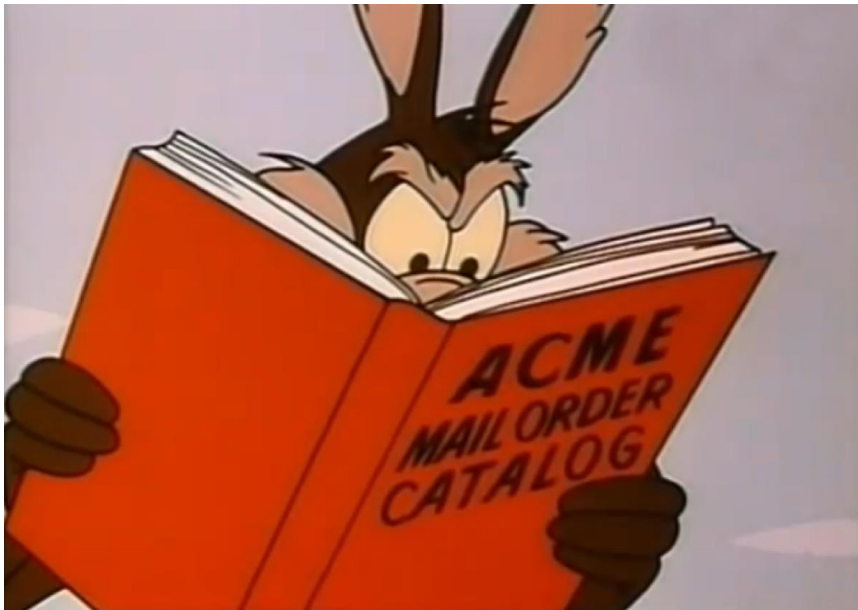


Nadpis



Jak začít s Proces BIM

- BIM není ACME tool, nelze dodat v krabici.



- Děkuji za pozornost.
 - » Pokud se Vám moje prezentace nelíbila, řekněte mi to. Pokud se Vám to líbilo, řekněte to ostatním.
 - > Pavel Lacina
 - > mail: pl@dalux.com
 - > M: +420 773 699 216