



How to bring Lean into government agencies?

Opportunities & Obstacles to Lean in Government – case Finland



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Finnish Transport Agency

Infrastructure provides a platform for growth in Finland



Infrastructure assets

20 billion €



Annual budget approximately

2.1 billion €



Current spending on ongoing projects

2.6 billion €



FTA personnel, permanent

600
experts



FTA's share of the total infrastructure market

1/5

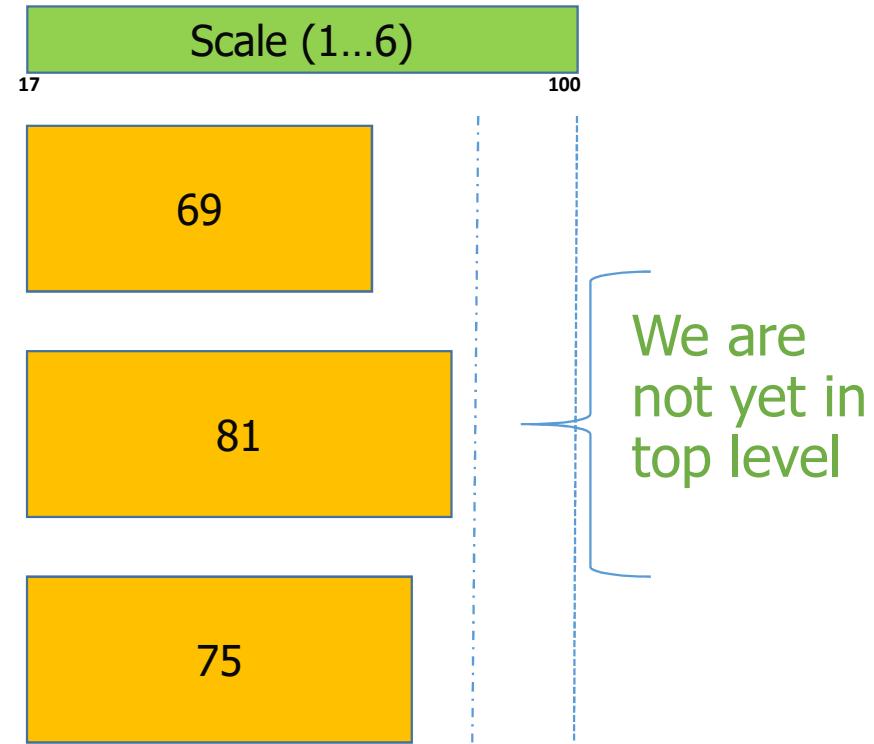


Number of people the FTA employs indirectly through projects

12,000

Service Providers estimate FTA every year

Procurement capability



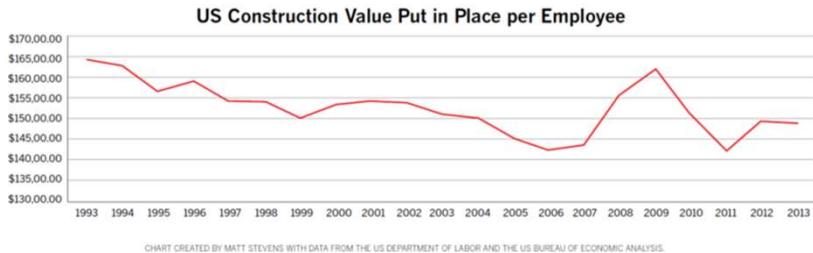
Network skills

Partnership skills

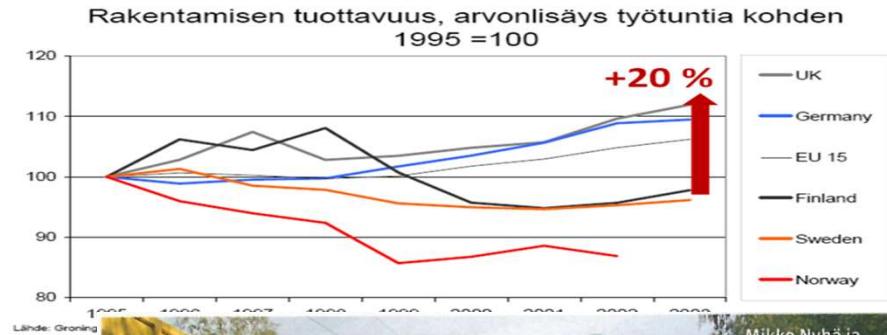
Needs to development from procurement of contracts in FTA:

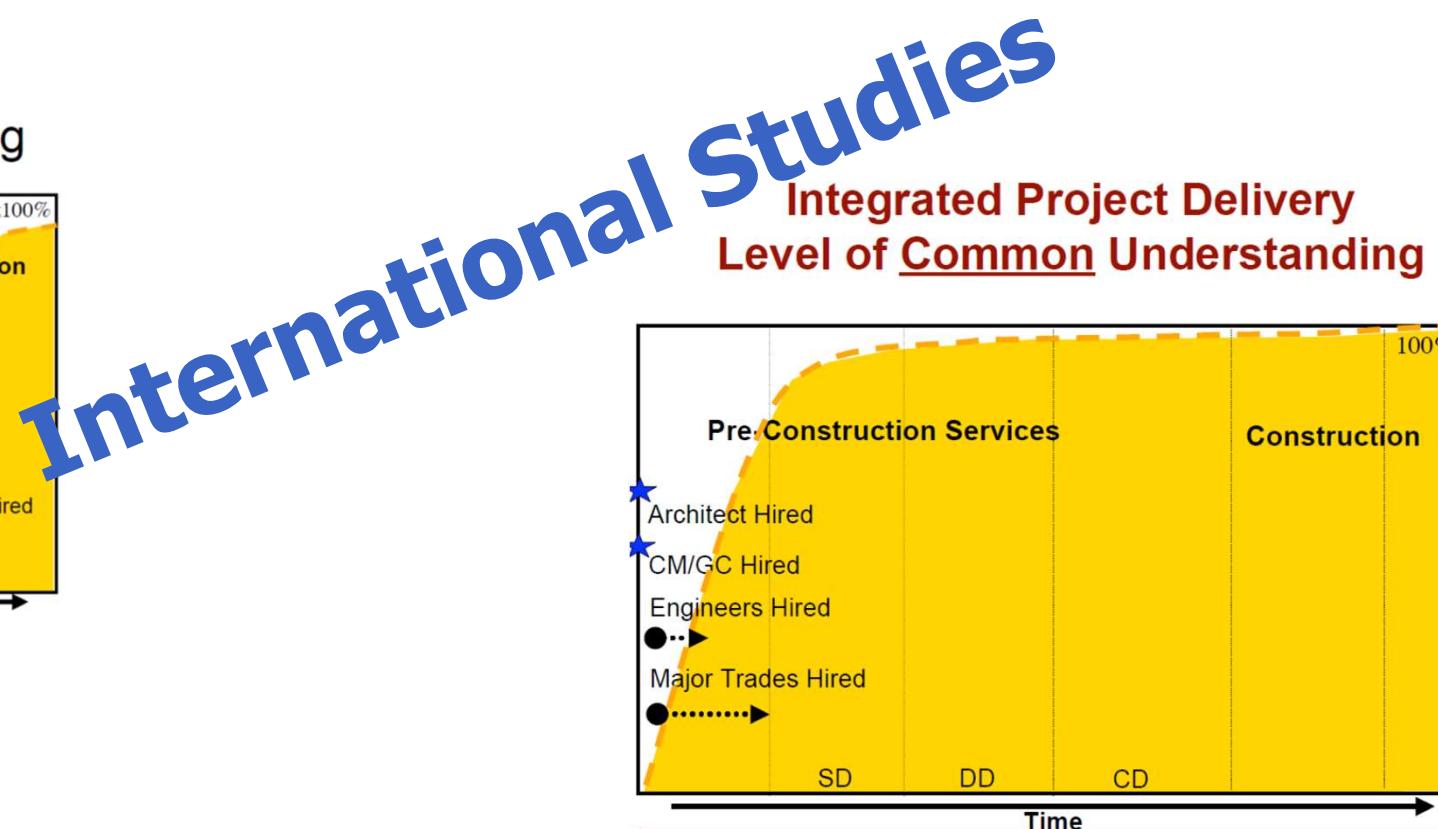
- The sharing of risks and benefits in contracts
- The selection criteria, which are encouraging contractors to develop their expertise and innovations

Strategic Targets for Lean



- To improve productivity of the entire industry
- To change the culture into a more open and trusting way of working
- To improve the customer satisfaction for end products – faster, better quality and cheaper
- To develop innovativeness and knowledge
- We do believe there is huge potential, which is connected to the way of acquiring services and cooperating during the project





- Confrontation
- Extra works
- Problems with time schedules
- Owner and service providers do not have common goals
- => Prerequisites for VfM do not exist
- => Low productivity

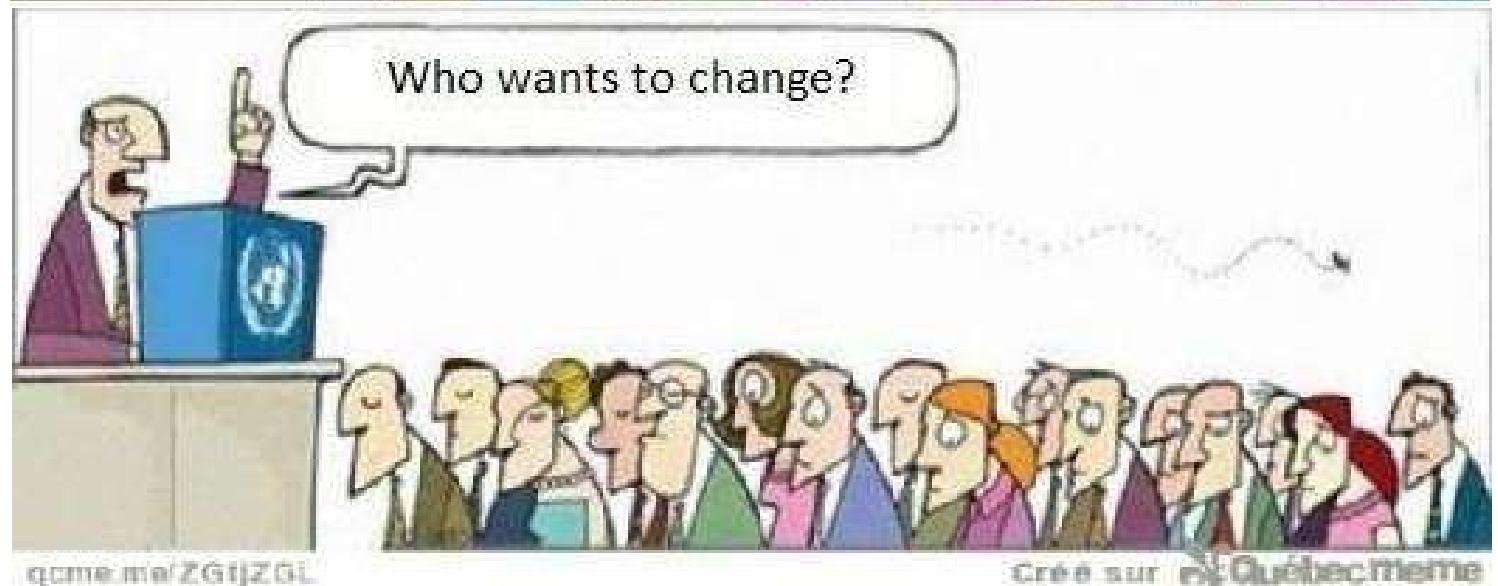
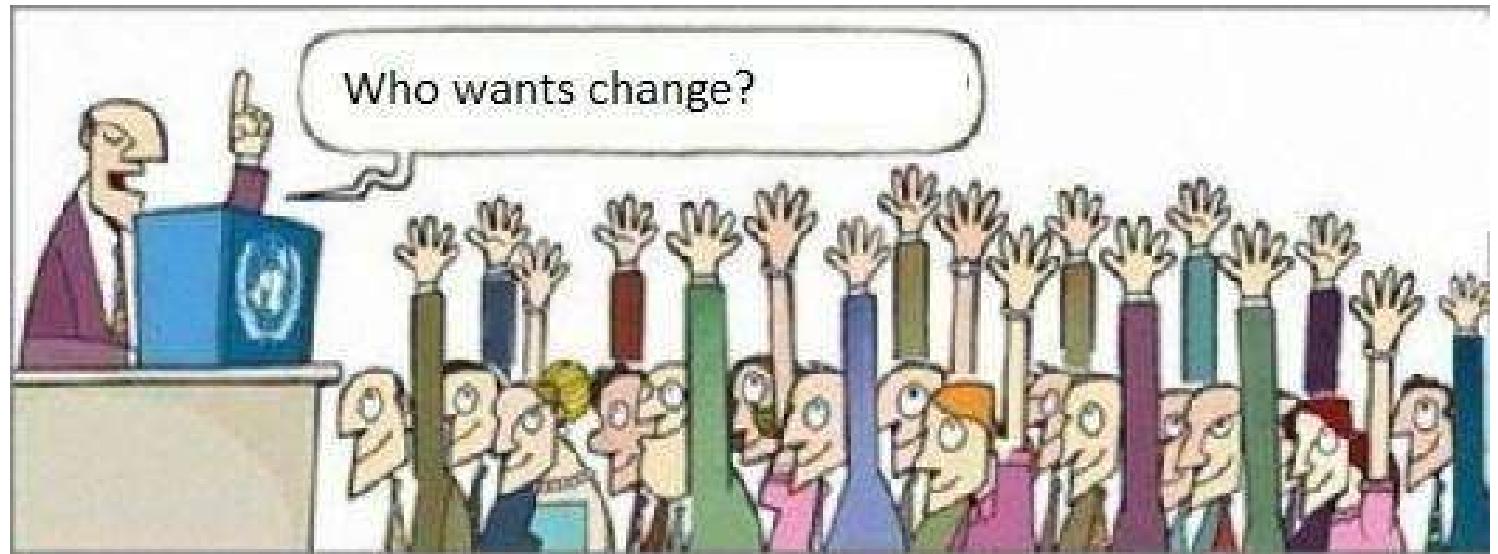
Early Contractor involvement

- Shared goals
- Better supply chain management
- Real possibilities for innovations
- Enables better VfM approach in project management

⇒ Prerequisites for increasing productivity

⇒ Productivity improves

- If you want a change, you need somebody to kick it off !!!



Leading Public Organizations in FIN



- Promoting change
- An example of leading owner organizations and people
- Dialogue between the owner organizations
- Dialogue with the industry

FIRST PILOT PROJECTS 2011

- Liekki-project (Railway renovation) 2011-15, 100 M€
Finnish Transport Agency
- Vuolukiventie Campus renovation 18 M€, 2011-13
University of Helsinki, Center for the Premises and Facilities
- Tampere Tunnel 2011-17, 180 M€
City of Tampere, Finnish Transport Agency



GROUP PROJECT 2013-2016

- Integrated Project Delivery for Finnish Public Owners = IPT
 - 11 public organizations, 13 real pilot projects
 - Key Question: How the Finnish public owners will develop and manage the new way to delivery projects using IPD models?



GROUP PROJECT 2017-2019

- Integrated Project Delivery for Finnish Public Owners
= IPT2
- 13 public organizations, 13 real projects
- Key Question: How we can develop our culture by developing people; better value and productivity



Possible Obstacles to use Lean

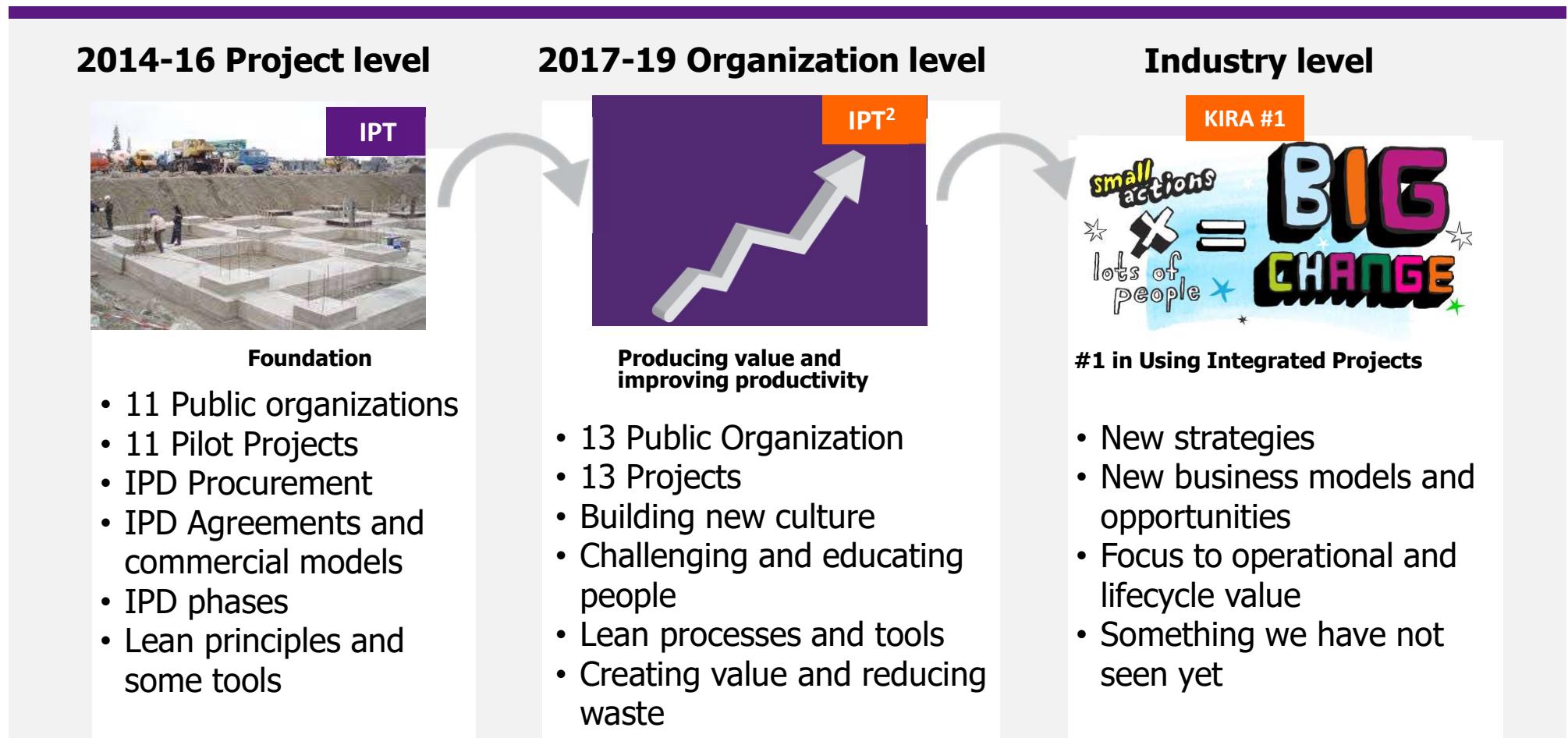
- Benefits are obvious but it is crucial for Owner to understand the risks
- The poorly planned and implemented selection process can ruin the entire process - it requires
 - resources, commitment, expertise ...
- An expanded risk range - beyond your own abilities
- Changing a key person can seriously damage your team's performance
- It requires more commitment from all - including the agency/company directors
- Does it exist real leadership inside owner's organization?



3000 M€ IPD Projects in 6 years

Project	M€	2011				2012				2013				2014				2015				2016				2017				
		Q1	Q2	Q3	Q4																									
1 Lielaiti-Kokemäki radan peruskorjaus	100																													
2 Vuolukiventie 1b:n peruskorjaus	18																													
3 Tampereen Rantatunneli	180																													
4 Helsinki-Vantaan liikennealueiden päällystystyöt ¹⁾	20																													
5 Terveyden ja hyvinvoinnin laitoksen pääraakennus ²⁾	18																													
6 Järvenpään sosiaali- ja terveystalo	51																													
7 Franzenian peruskorjaus ³⁾	6																													
8 Lahden matkakeskus	19																													
9 Pakilan alueurakka	8																													
10 As. Oy Helsingin Retkeilijäkatu 3-7 ⁴⁾	9																													
11 Jyrkkälän lähiön julkisivuperuskorjaus	28																													
12 As. Oy Gunillankallio 10	13																													
13 VTT:n ydinturvallisuustalo ²⁾	30																													
14 Joensuun oikeus- ja poliisitalo ²⁾	30																													
15 Naantalin voimalaitoksen allianssiurakka	45																													
16 Yliopistonkatu 4 peruskorjaus	25																													
17 Kainuun keskussairaan peruskorjaus ja laajennus	120																													
18 VT 6 peruskorjaus	76																													
19 Kempeleen TK	14																													
20 Hiukkavaaran monitoimitalo	24																													
21 LaNa (Lasten ja naisten sairaala) ⁵⁾	60																													
22 Kotkan poliisitalo ²⁾	20																													
23 Espoonlahden kirkko ⁶⁾	8																													
24 Tampereen raitiotie	280																													
25 Turun Syvälahden koulun allianssiurakka	28																													
26 Finavian Asemaaston allianssiurakka	100																													
27 Jakomäen keskiosan kehittäminen	50																													
28 Tammelan stadion	60																													
29 Pohjankartanon koulusaneerausohjelma ⁷⁾	10																													
30 Pitkäkankaan koulusaneerausohjelma ⁷⁾	10																													
31 Finavian terminaalilaajennus ⁶⁾	200																													
32 Harppuunakorttel ⁷⁾	100																													
33 Ånekesken radan peruskorjaus	80																													
34 Rataverkon KP2-palvelualianssi	25																													
35 Tesoman hyvinvointipalvelut	140																													
37 Suomenlinnan huoltotunneli	7																													
38 Ylimaarian koulu	22																													
39 Raide-Jokeri	275																													
40 Lahden eteläinen kehätie - Allianssi	150																													
41 Vantaan koulut 2 kpl	40																													
42 Kuopion uusi sairaala	120																													
43 Tiestötietojärjestelmä - ja palvelut	8																													
44 Tikkurilan kirkko	44																													
44 Keravanjoen yhtenäiskoulu	32																													
45 Vaasan sairaala H-uudisrakennus	110																													
46 Pakilan palvelurakennukset -allianssi	40																													
47 Infra-alan kustannuslaskentajärjestelmä	8																													
48 Kruunusillat-allianssi	120																													
Total	2981																													

Public Owners: IPT2 Project



The Global Project of the Year 2018





Thank you

Nothing
teaches us better than our own
experiences!