

# Creating the future of transport



www.trl.co.uk



# Road user perspectives of 'safe' road surfaces

Vijay Ramdas 12 May 2008



### Road user perspectives

### User categories

- Pedestrians
- Cyclists
- Motor cyclists
- Motorists
- LGV, PSV & HGV drivers

#### Pedestrians and motorists

- Elderly
- Disabled
- Others





#### User mind sets / considered views

#### Good Surfaces

 New & black, even, smooth but grippy, wide surfaces, clear road markings.....



#### Bad surfaces

 Potholes, patches, uneven, bumpy, slippery, poor utility repairs, water build up, sunken drain covers, failed patching, speed bumps ......





### User requirements

- Ride comfort BUT
- Pre-dominantly.....Safety

A good/safe road surface you should not notice



Something <u>"sudden"</u> causes you to notice

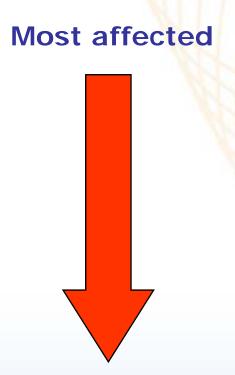
Safe / Acceptable

**Unsafe /Unacceptable** 



### Impact of road surface

- Elderly & Disabled
- Cyclists & Motorcyclists
- Pedestrians
- HGV / Bus drivers
- Car/LGV drivers & passengers



Least affected



### **Elderly & Disabled**

Uneven surfaces

Raised / lowered paving slabs and potholes

"I have had shooting pain....so that's a bad road. Then I don't go that way, just to avoid it"

" Cracked pavements...I have to walk along looking at the floor to make sure I don't fall over them



"The 'bobbles' on the slabs... it sends the wheels crazy when you go over the bumps"



### Cyclists and motorcyclists

#### Stability

- Grip
- Uneven surfaces
- Ruts / longitudinal cracks / thick white lines
- Location of defects, e.g. sunken/raised ironworks, potholes

"It only takes you just to move a little bit, and all of a sudden, wham....you are out"





"Sunken drains...would not want to ride over those; you are forced to suddenly swerve out to go round it- dangerous"



### **Pedestrians**

Trips & Falls





"Definitely a trip! Dangerous if infirm, pushing a buggy or not looking where they are going"

Not very pretty but... flat enough: Acceptable







### **HGV** drivers

- Grip
- Bumpy surfaces
- Edge deterioration
- Width

"Bridge joints cause sudden drops in the road surface and can be dangerous as vehicle can be difficult to control"



"Cars can avoid drains and bad bits of road. Try to avoid drains if possible but wide vehicle often makes this impossible"



### **Motorists**

- Uneven surfaces Bumpiness
- Ruts



"Not a fantastic surface, but at low speeds not of great significance

"The problem is not the condition; problem is the volume of traffic using the roads"



### User perspective – user category

#### Motor cyclist

"Very smooth, lack of grip – terrible"

#### Car drivers

 "Great road surface, no bumps, exceptional standard, nice piece of road to travel on"





## **THANK YOU**

