



OST SLOPE PROTECTION ENGINEERING INDIA PVT. LTD.

Innovative Design, Safe & Reliable
Slope Protection Product System

CARE FOR LIFE
GUARD SAFETY

www.ostindia.co.in

Innovative Design, safe & Reliable Slope Protection System

COMPANY PROFILE

- Specialised in **Rockfall and Slope Protection Services**



Design and Development



Manufacturing



Survey and Consultancy



Engineering Design
and Construction



GLOBAL PRESENCE



China



India



Malaysia



Bulgaria



Further expanding to Europe, Australia, North America and South America



Guiding System

- *Guides the rocks to a pre-set accumulation area for future clearance*



Interception System

- *Intercepts falling rock blocks from intruding protection area by passive protection*



Reinforcement System

- *Restrains movement of unstable blocks by both covering & tightening methods*

GUIDING SYSTEM

Covering Curtain type net



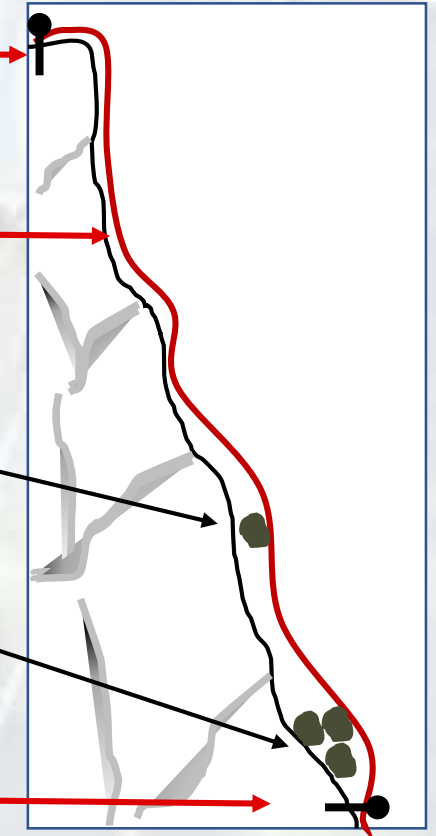
Anchored at top

Drapery Net

✓ Rock blocks guided towards the toe of slope

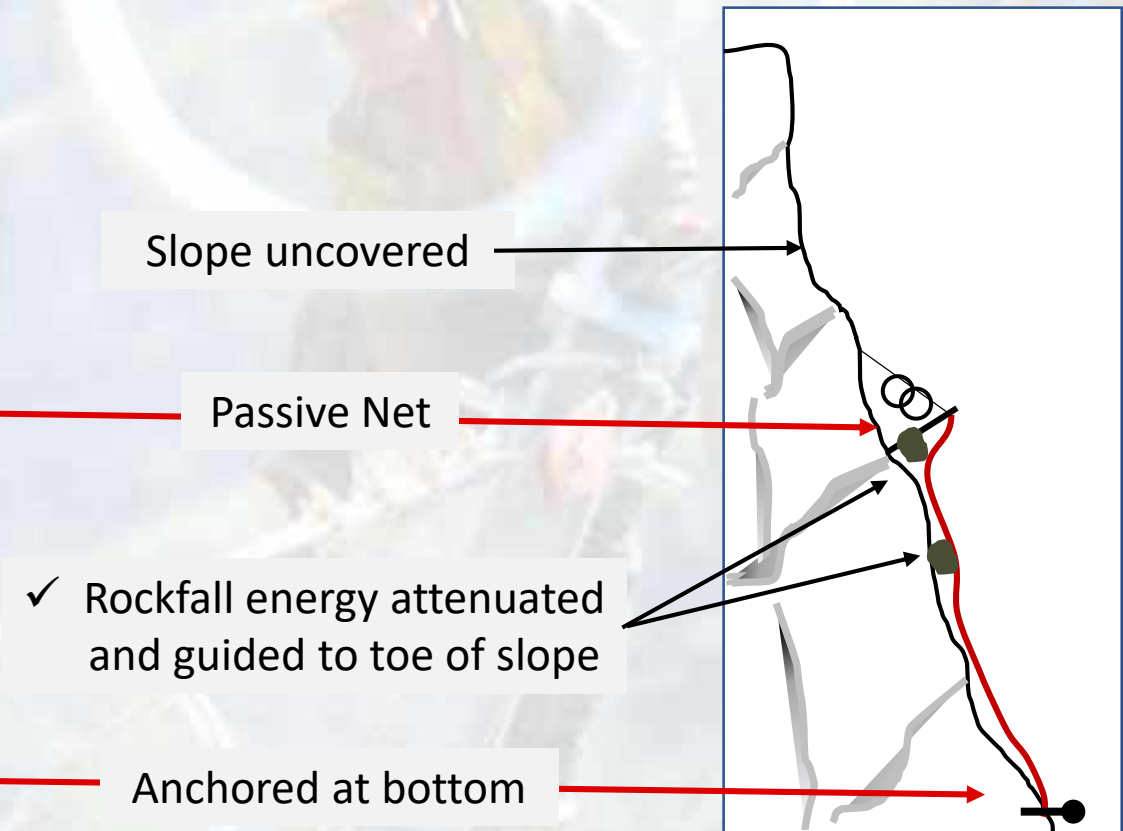
✓ Accumulated debris removed

Anchored at bottom



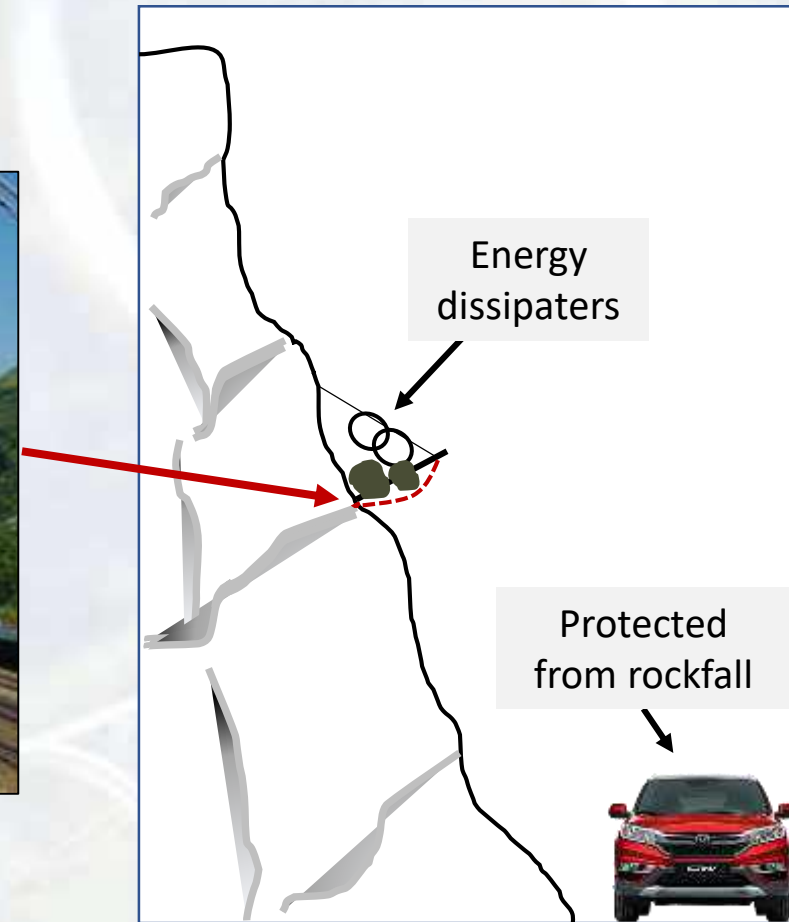
OPENING CURTAIN TYPE NET

- *Combination of simple drapery & flexible rockfall barrier (Hybrid barrier)*



INTERCEPTION SYSTEM

RXI-Y series

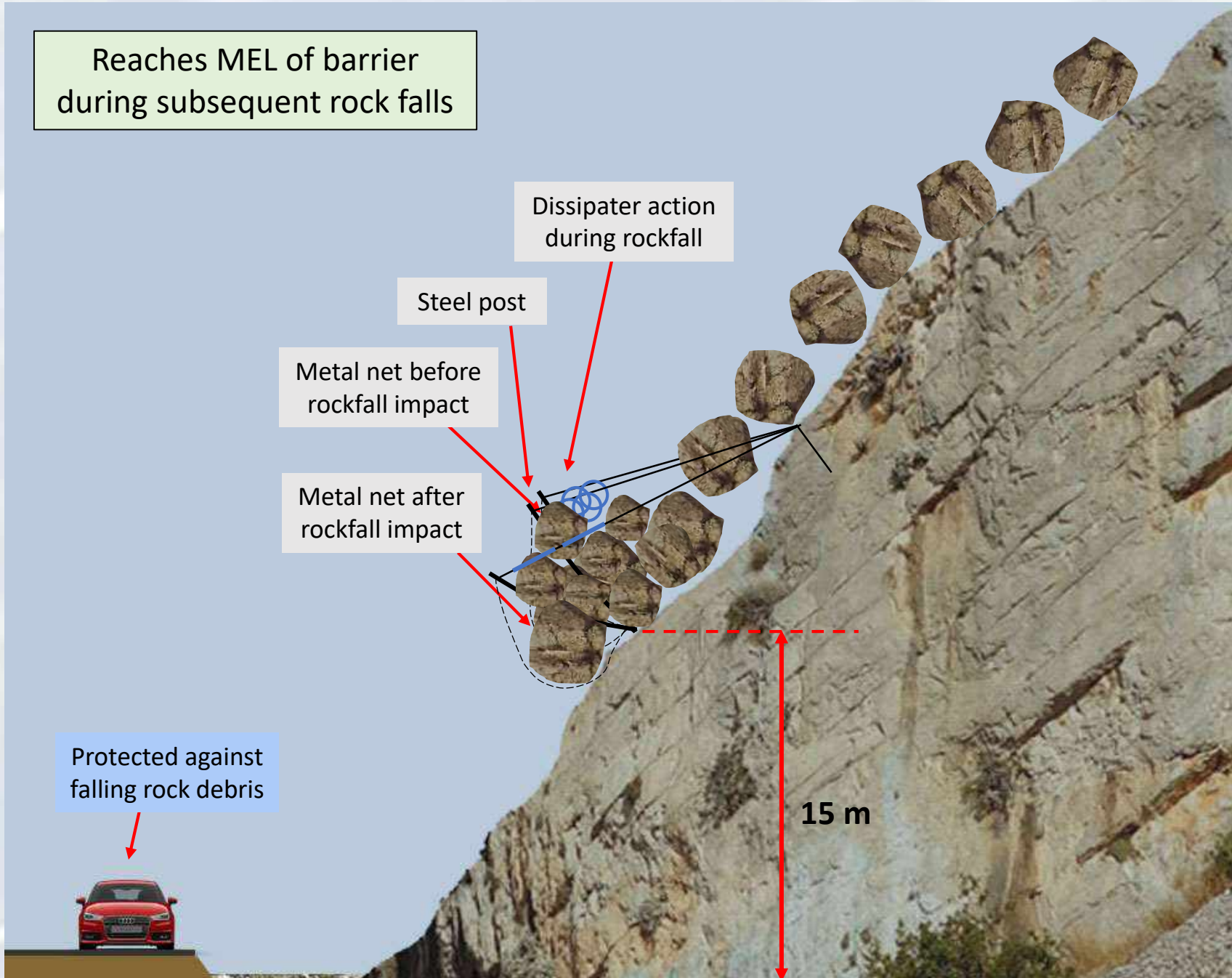


- ***Intercepts and dissipates the energy of falling rocks due to high flexibility of system***



**Advantages of
Opening Curtain type net (**Hybrid barrier**)
over Flexible rockfall barriers**

Reaches MEL of barrier during subsequent rock falls



Dissipater action during rockfall

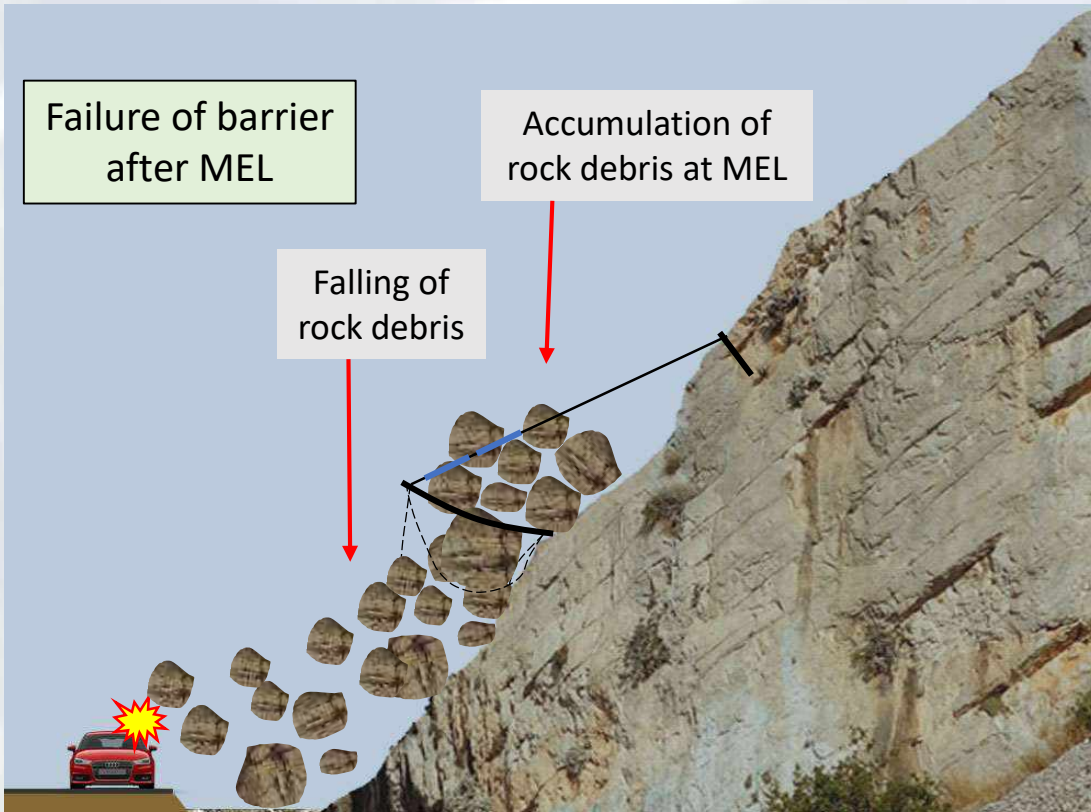
Steel post

Metal net before rockfall impact

Metal net after rockfall impact

Protected against falling rock debris

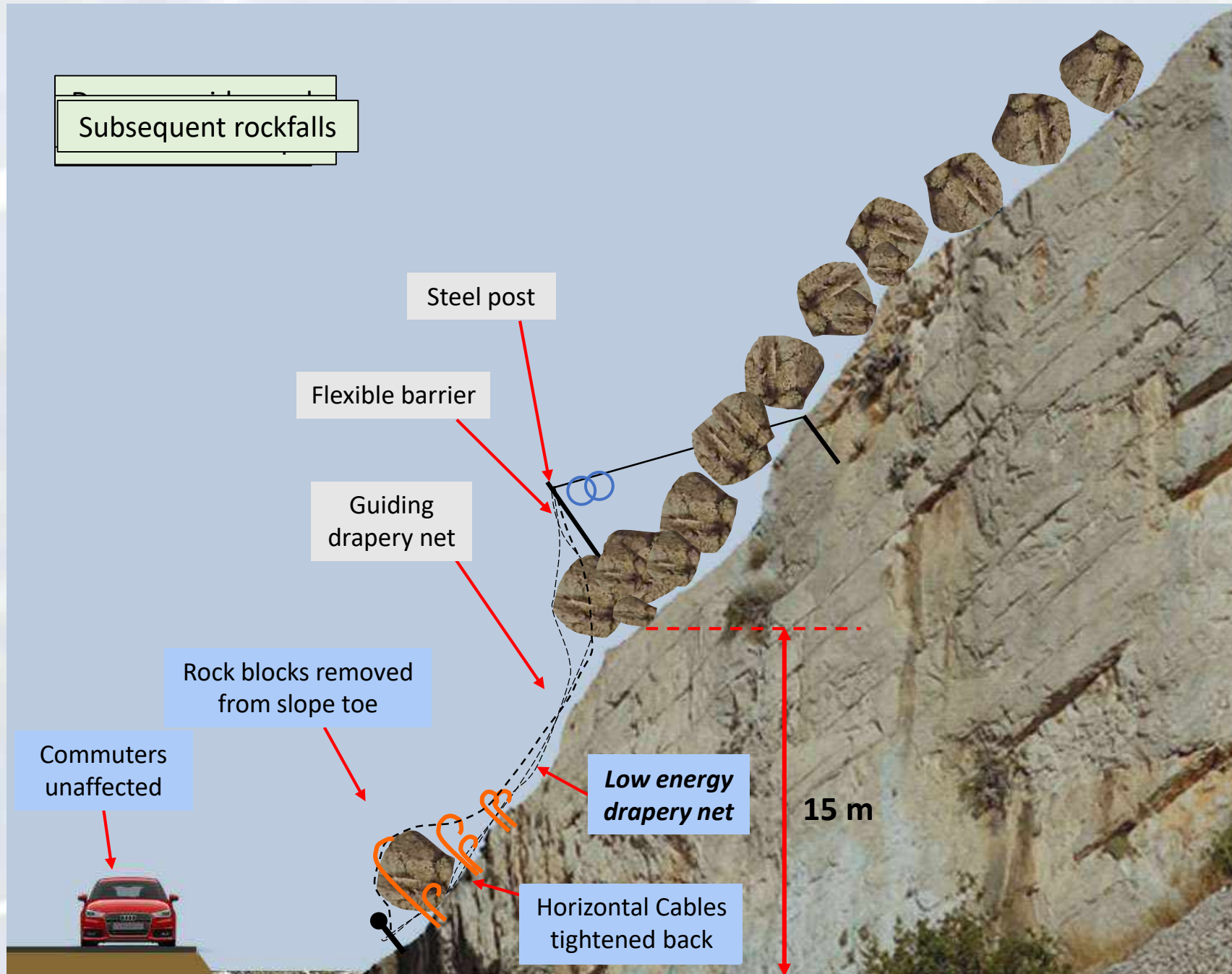
15 m



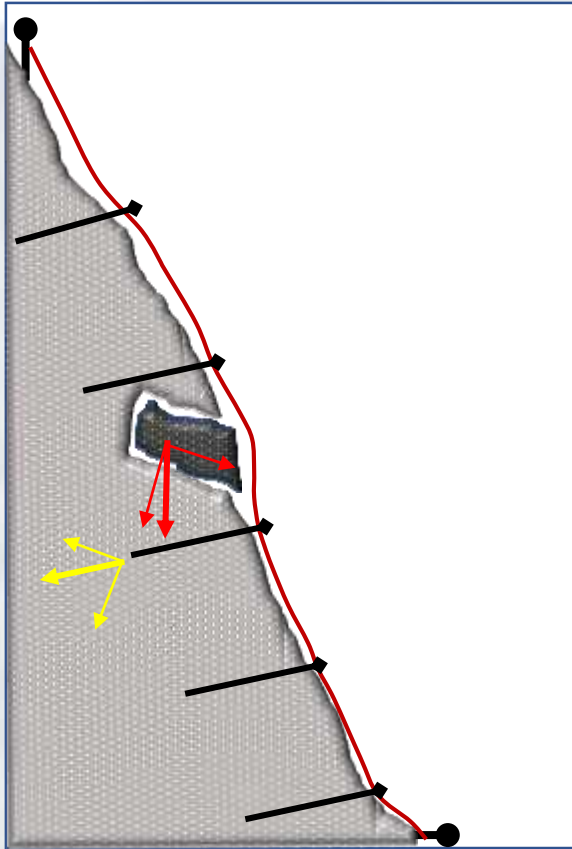
Failure of flexible barrier upon excess load



Hybrid barrier



REINFORCEMENT SYSTEM

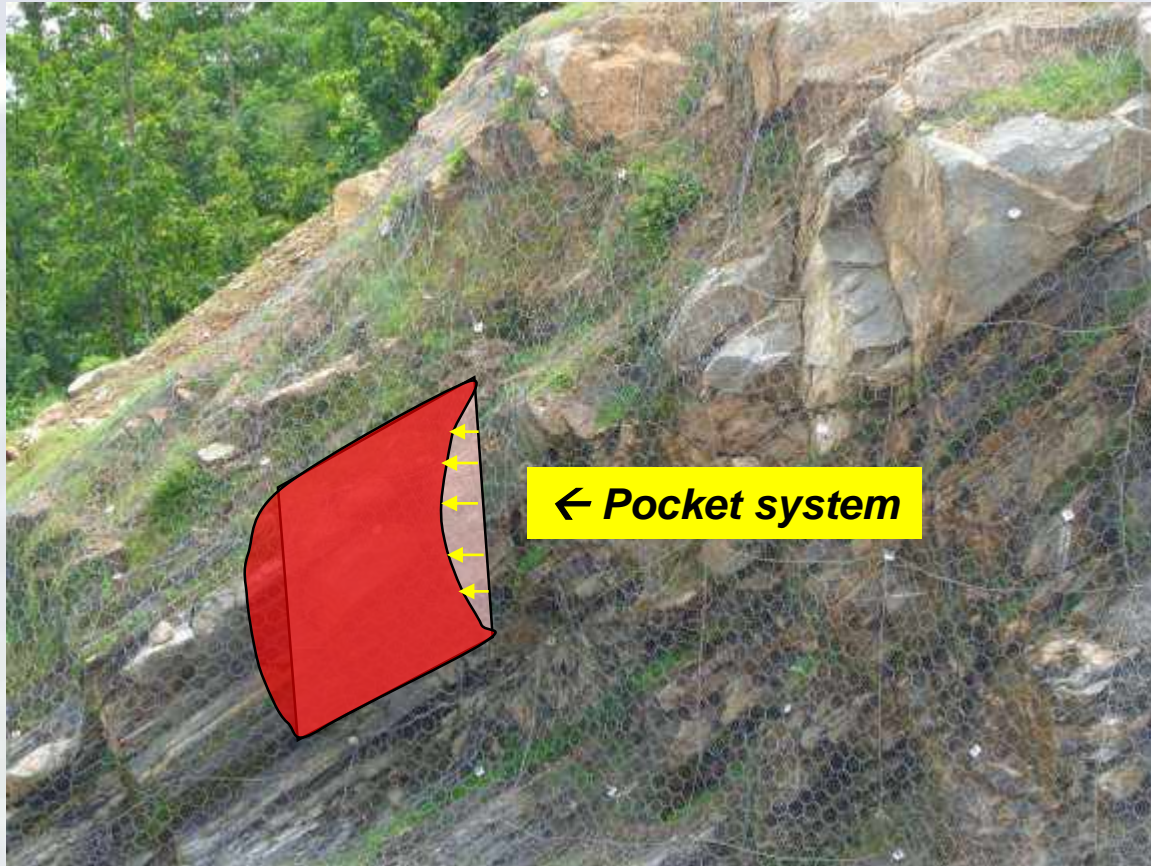


- *Applicable to highly jointed rock slopes prone to sliding*
- *Combines both covering and tightening techniques to limit range of rockfalls*

Types

- *GPS-2 (Rhomboidal cable net)*
 - *Employs rhomboidal cable net + Double twisted mesh as secondary net with anchoring*
- *GPS-H (Ring net)*
 - *Employs Ring net + Double twisted mesh as secondary net with anchoring*

GPS-H (Ring net)



GPS-2 (Rhomboidal Cable net)



- **Pocket system**
 - **Each panel behaves as a pocket which holds a specific volume of boulders**
→ **Bursting strength more important**

FLEXIBLE STEEL STRUCTURE SHED TUNNEL

- A steel structure tunnel constructed at tunnel portals to intercept rockfalls

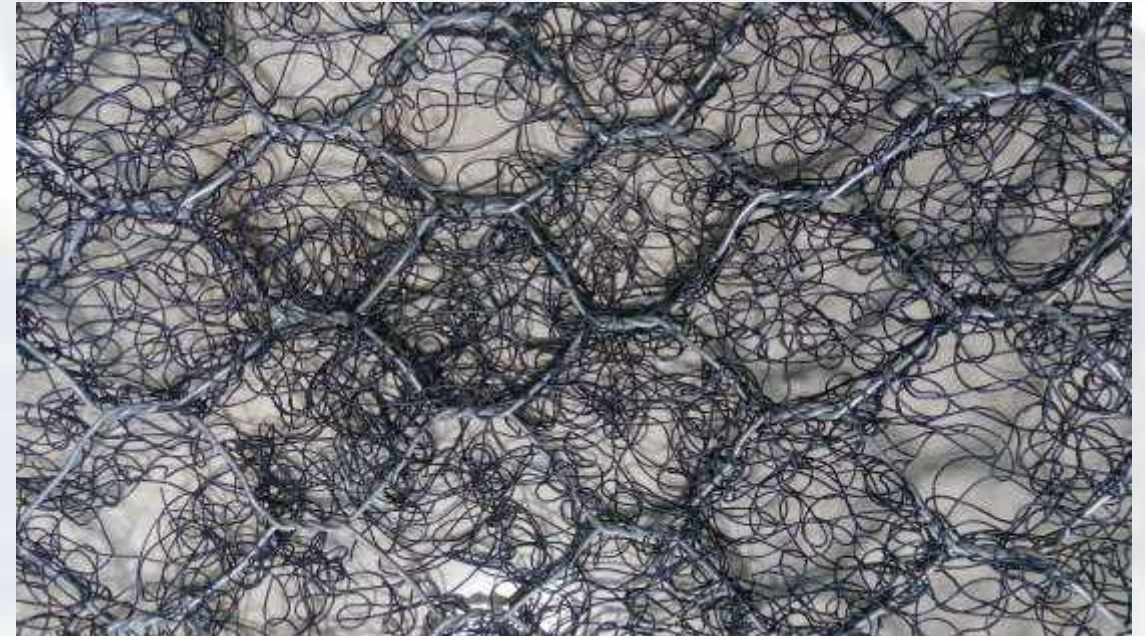


Tunnel portals along Highways

- *Alternative to conventional concrete tunnels*
- *Efficient rockfall protection than rockfall barrier and drapery systems at tunnel portals*
- *Enhanced protection capacity due to flexible mesh system*

EROSION CONTROL MAT

- It consists of UV-Stabilized multi-filamented fibre.
- Reinforced with Double twisted hexagonal mesh.
- Supports vegetation which furthers anchor the mat onto the surface of slope contributing enhanced stability.



Three Dimensional Reinforced Erosion control Mat

FEATURED COMPONENTS



Rhomboidal cable net



Ring net (GPS-H)



Double twisted hexagonal net



Energy dissipaters

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