Preparing Riders to S.E.E. Better:

MSF Tools for Improving Hazard Perception

Motorcycle Safety Foundation

2 Jenner, Suite 150

Irvine, CA 92618

www.msf-usa.org

Ray Ochs

Director of Training Systems

Tim Buche

President and Chief Executive Officer

Presentation Purpose

1. *Provide a rationale for hazard perception training.*
2. *Show how hazard perception training connects with executive functions.*
3. *Demonstrate how MSF incorporated hazard perception into its programs.*

Defining Key Terms

- Hazard Perception
- S.E.E.
- Executive Functions
- RETS

Defining *Hazard Perception*

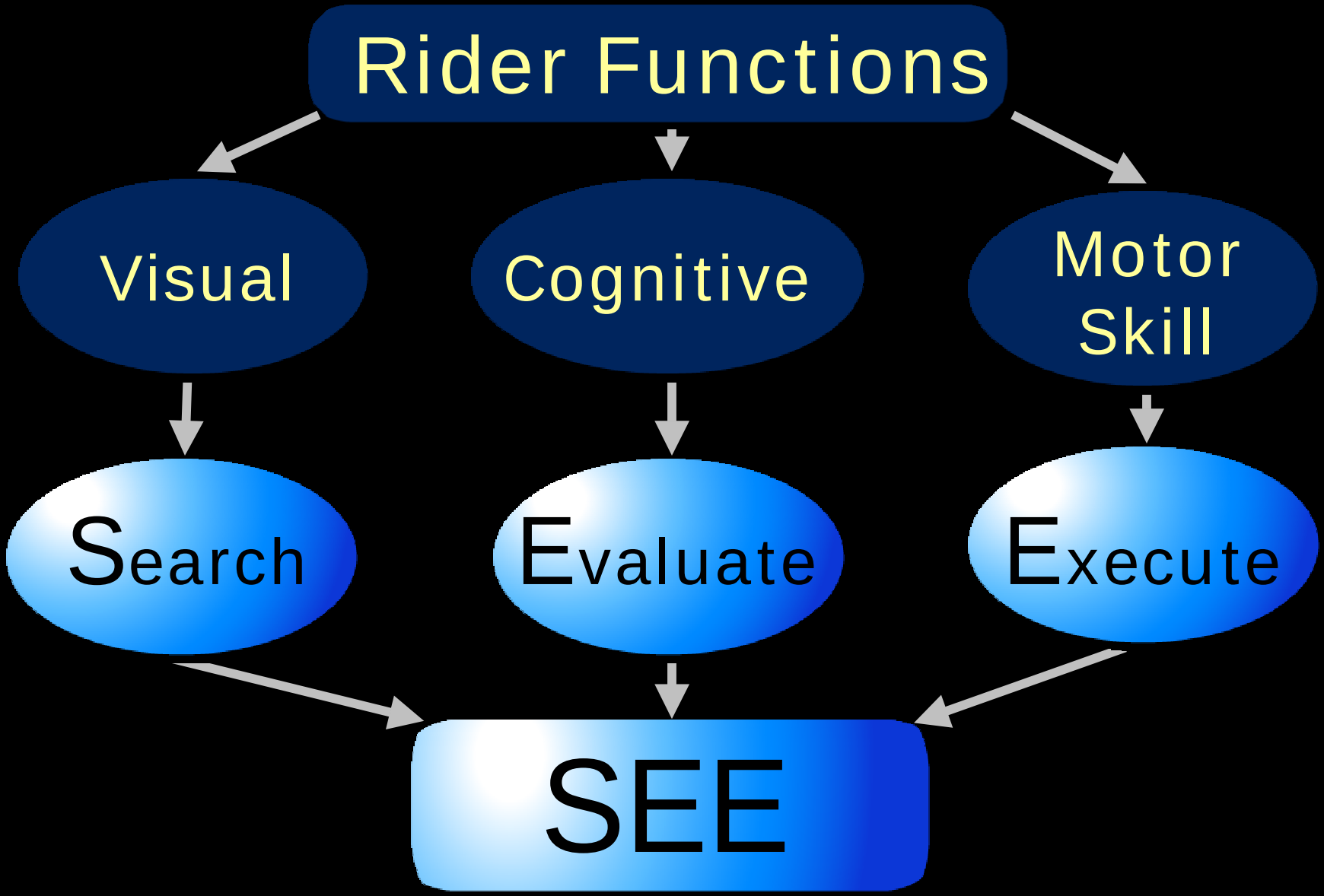
The ability to identify potentially dangerous traffic situations. *(Crick and McKenna, 1992)*

The process whereby a road user notices the presence of a hazard. *(McDonald, 2002)*

Seeing and understanding accurately. *(MSF)*

Note MSF expands into *Rider Perception*.

Defining *S.E.E.*



Defining *Executive Functions*

Higher-order brain/mind processes:

- Goal Setting
- Planning
- Organizing
- Prioritizing
- Initiating
- Shifting
- Monitoring

Defining *RETS*

Rider Education and Training System
of the Motorcycle Safety Foundation
(MSF)

A System of Safety Programs to Develop
Safe and Responsible Riders

Rationale for Hazard Perception Training

The Human Factors Central Thread of RETS: 5 Core Questions

1. What is the primary cause of rider crashes?
   - Interaction of factors.

2. What is a good rider?
   - One who reduces contributing factors.

3. How does a good rider reduce factors?
   - Applies a strategy—S.E.E. (Search-Evaluate-Execute)

4. How long does it take to reduce risk?
   - It's a decision away!

5. What is the primary challenge to be safe?
   - Choosing to ride within personal and situational limits.

Rationale for Hazard Perception Training

The Human Factors Central Thread of RETS: 5 Core Questions

1. What is the primary cause of rider crashes?
   - Interaction of factors

2. What is a good rider?
   - One who reduces contributing factors

3. How does a good rider reduce factors?
   - Applies a strategy—S.E.E. (Search-Evaluate-Execute)

Rider Perception

Rationale for Hazard Perception Training

The Human Factors Central Thread of RETS: 5 Core Questions

Executive Functions

4. How long does it take to reduce risk?
   - It's a decision away!

5. What is the primary challenge to be safe?
   - Choose to ride within personal and situational limits.

Rider Perception in MSF Programs

Introduced and developed
in basic programs.

Expanded in advanced programs.

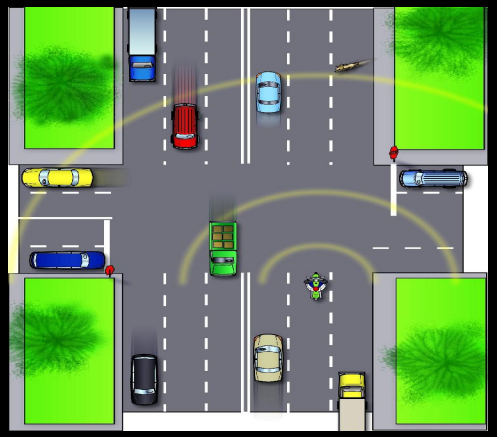
Enhanced at every opportunity.

Rider Perception in MSF Programs

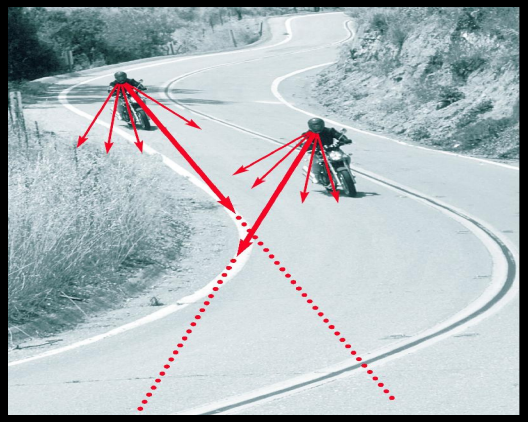
Physical

Factors other than physical skill contribute to crashes.

Social



Mental



Rider Tasks

Emotional