

# **UNECE WP29**

## **TYRE GTR**

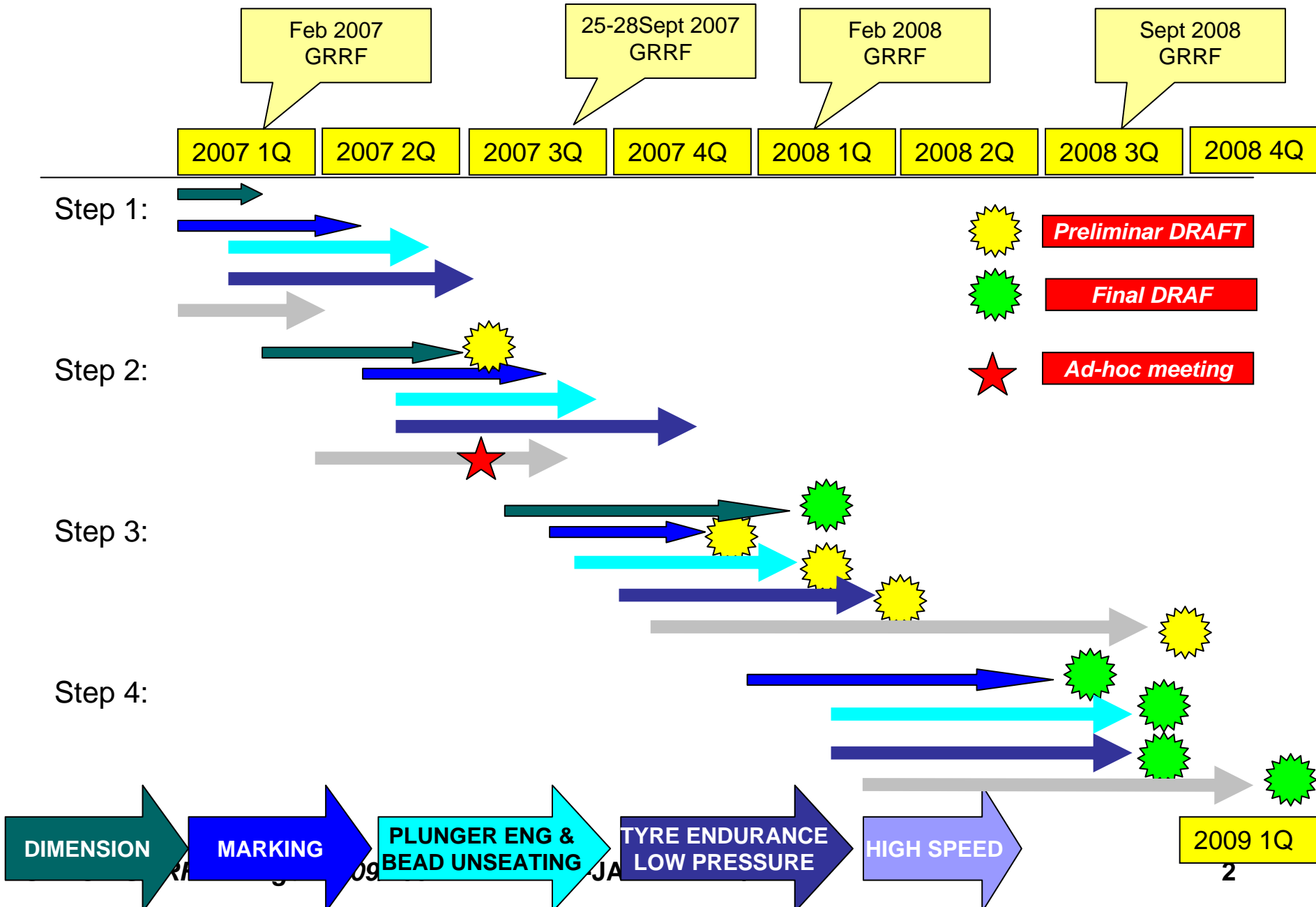
### **ROADMAP & ACTION PLAN**



# Road map for TYRE GTR

2007/9/28

ver3





## 1<sup>st</sup> Step : Approach:

Review current marking requirements in various regulations

- Regulations of 98 C/P
- Regulations on other countries, such as Middle East area and South America
- GTS 2000 requirements

Categorizing and grouping marking requirements and items

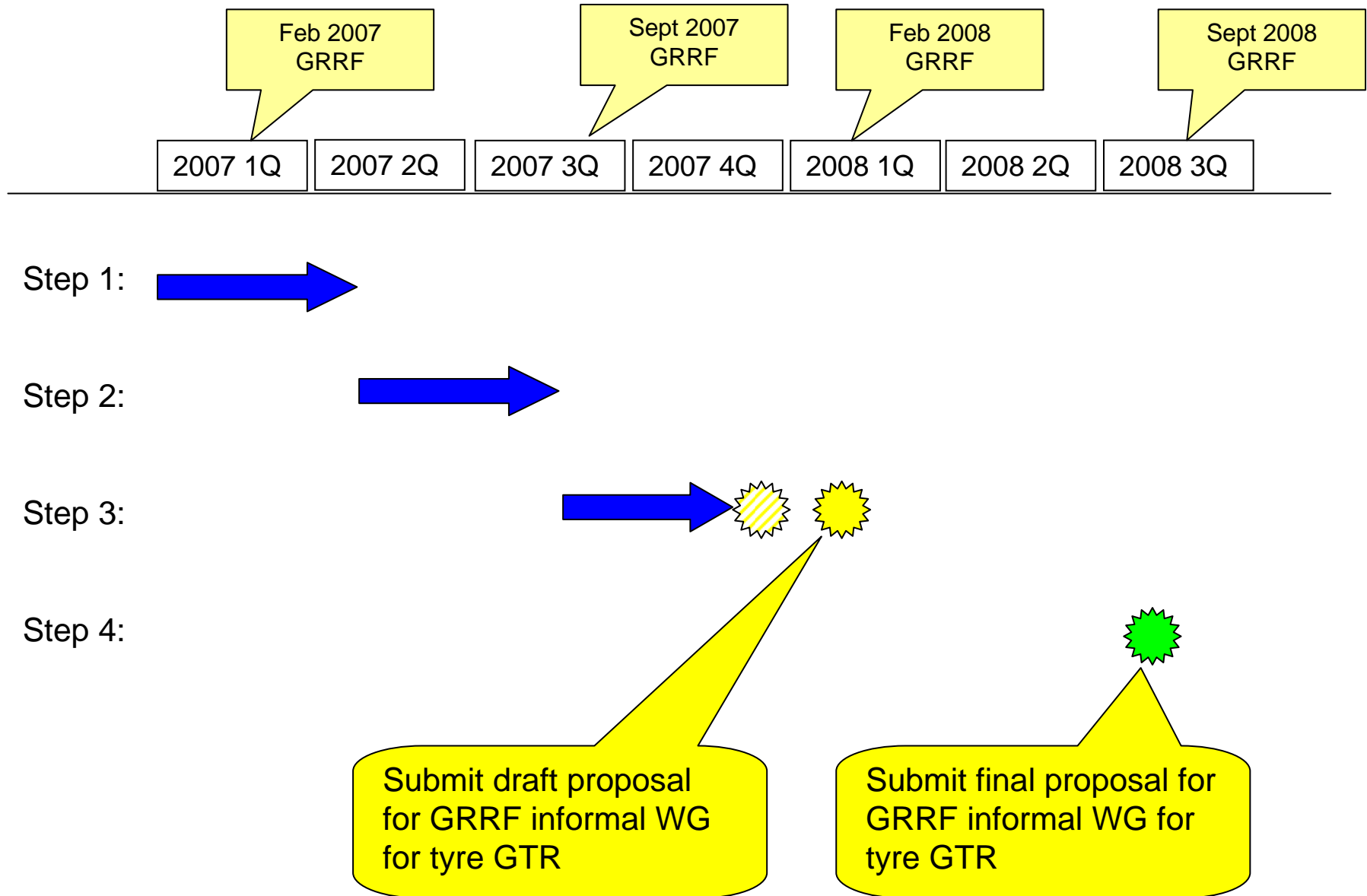
- FMVSS group
- ECE group
- Special marking requirements

## 2<sup>nd</sup> Step : Study draft proposal

- Review each marking item for requirement
- Construct marking requirements, with reasons for adoption

## 3<sup>rd</sup> Step : Finalize draft proposal

## 4<sup>th</sup> Step : Submit final proposal



### 1<sup>st</sup> Step : Analysis of existing regulations:

- Sept 2006: Presented preliminary analysis
- Feb 2007: Update of analysis

### 2<sup>nd</sup> Step : Present draft proposal for test method and tolerances

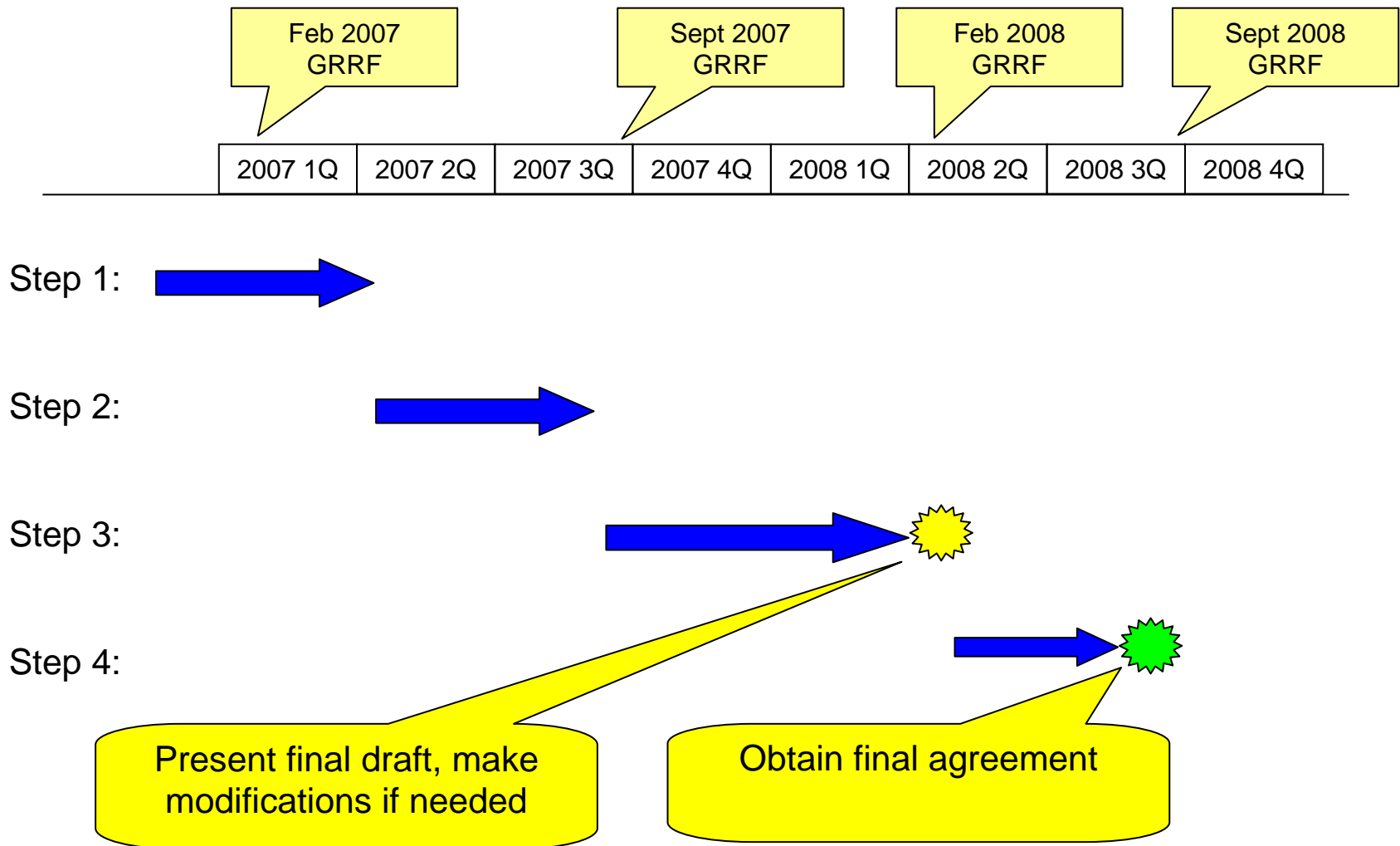
- June 2007: Draft proposal document available to CPs
- Sept 2007: Discussion of proposal in GRRF

### 3<sup>rd</sup> Step : Finalize draft proposal

- Feb 2008: Present final draft, make modifications if needed

### 4<sup>th</sup> Step : Submit final proposal

- Sept 2008: Obtain final agreement



### 1<sup>st</sup> Step : Approach:

- Sept 2006: Proposed idea to use "most severe" test
- Feb 2007: Propose method to determine test severity equivalence point

### 2<sup>nd</sup> Step : Gather data, evaluate feasibility, and presentation of preliminary results

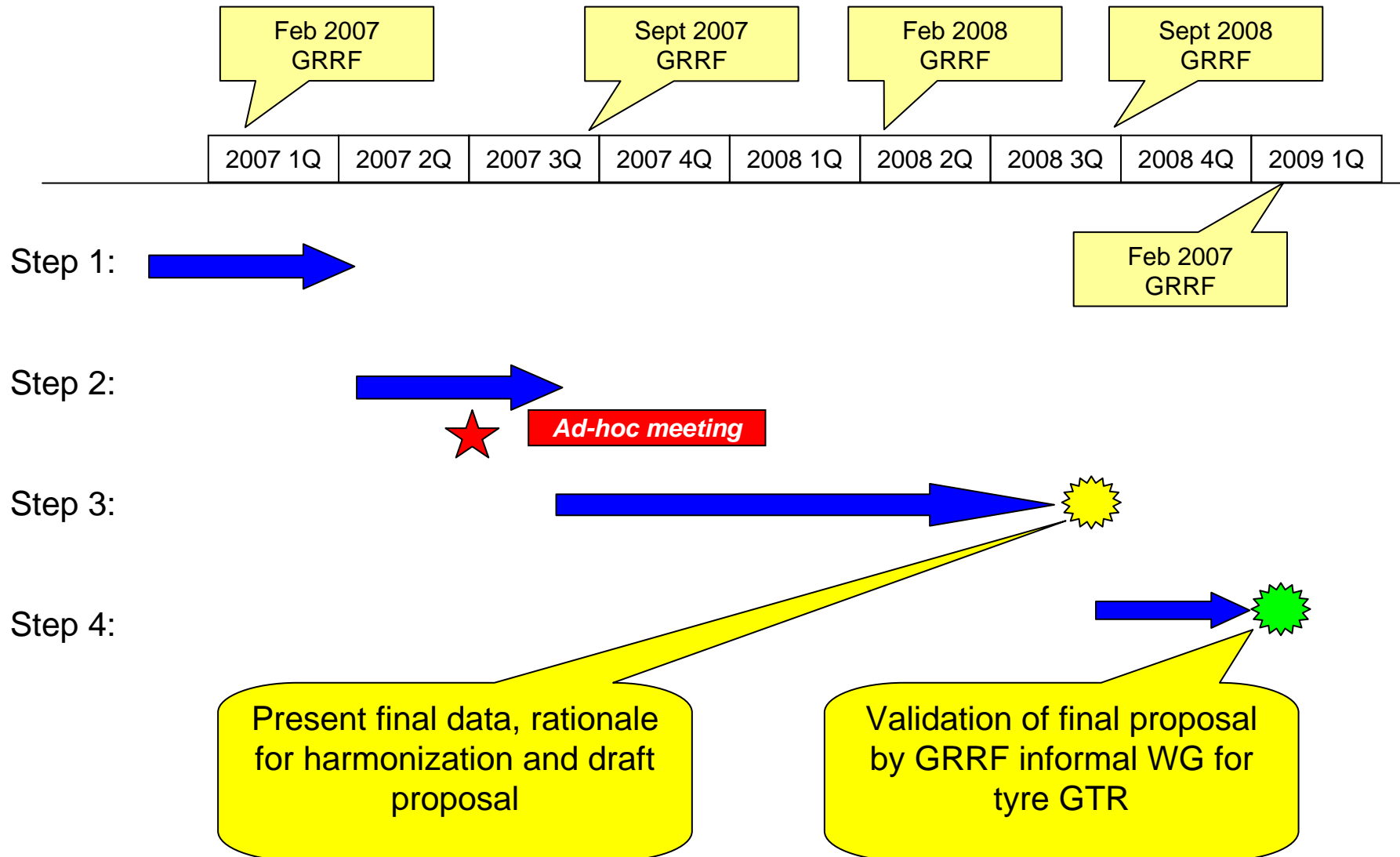
- June 2007: Feasibility established
- Sept 2007: Present preliminary results to GRRF

### 3<sup>rd</sup> Step : Finalize draft proposal

- Sept 2008: Present final data, rationale for harmonization and draft proposal

### 4<sup>th</sup> Step : Submit final proposal

- Feb 2009: Obtain final agreement





## 1<sup>st</sup> Step: Approach:

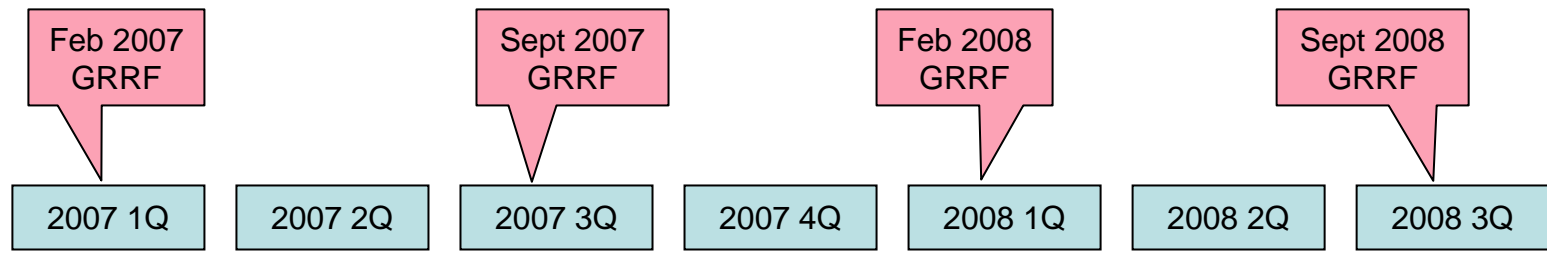
- Review current test requirements
  - Regulations of 1998 Agreement Contracting Parties
  - Regulations from other countries
  - GTS 2000 requirements
- Study value of test for bias and radial
  - Solicit experience from CP regarding casing penetrations for radial ply tyres
  - Consider options for industry proposal based on needs and application of test to modern radial tyres

## 2<sup>nd</sup> Step: Study Draft Proposal

- Review all available input and construct draft application based on best available information

## 3<sup>rd</sup> Step: Finalize Draft Proposal

## 4<sup>th</sup> Step: Submit Final Proposal



Step 1:



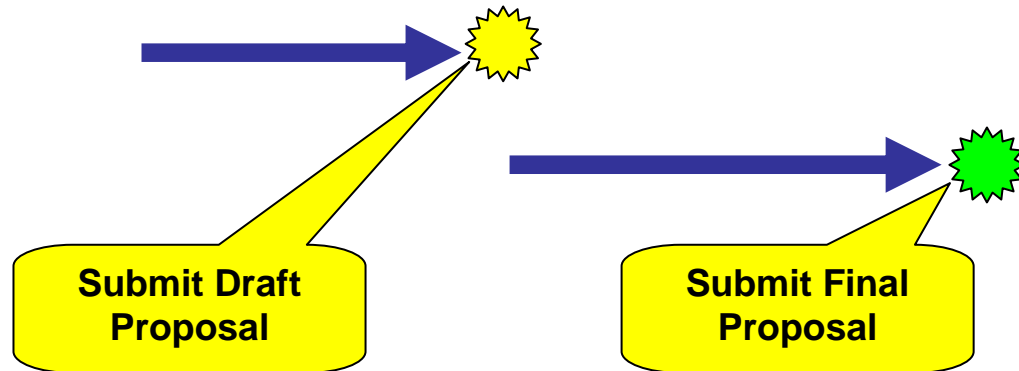
Step 2:



Step 3:



Step 4:



## 1<sup>st</sup> Step: Approach:

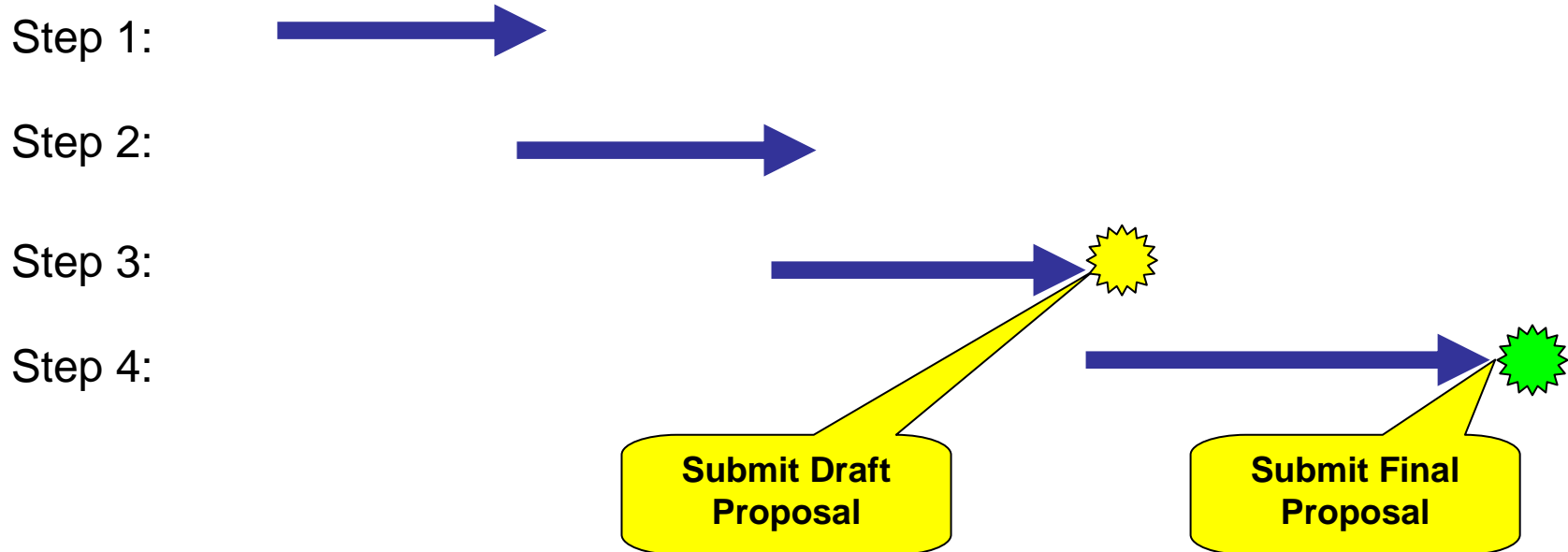
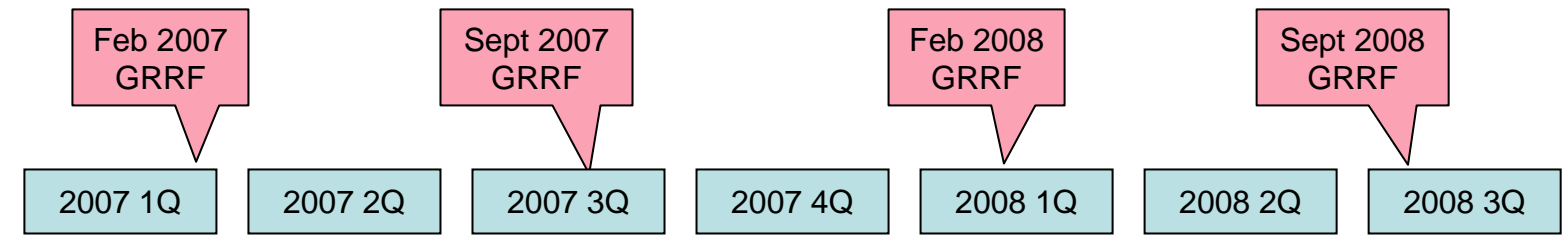
- Review current test requirements
  - Regulations of 1998 Agreement Contracting Parties
  - Regulations from other countries
  - GTS 2000 requirements
- Study value of test for bias and radial
  - Solicit experience from CPs and other stake holders regarding bead unseating for radial ply tyres
  - Consider options for industry proposal based on needs and application of test to modern radial tyres, including low aspect ratio tires

## 2<sup>nd</sup> Step: Study Draft Proposal

- Review all available data, including transfer of forces, simulation of actual field conditions and construct draft proposal

## 3<sup>rd</sup> Step: Finalize Draft Proposal

## 4<sup>th</sup> Step: Submit Final Proposal



## 1<sup>st</sup> Step: Approach:

- Review current test requirements
  - Regulations of 1998 Agreement Contracting Parties
  - Regulations from other countries
- Study value of creating equivalent test severity for vehicle tyres
  - Review all available data, including work by ASTM to develop a technical standard for tires that provides equivalent test severity on a curved surface vs. a flat (real-world) surface.

## 2<sup>nd</sup> Step: Study Draft Proposal

- Validate equivalency factors that can be used in roadwheel testing

## 3<sup>rd</sup> Step: Finalize Draft Proposal

## 4<sup>th</sup> Step: Submit Final Proposal

