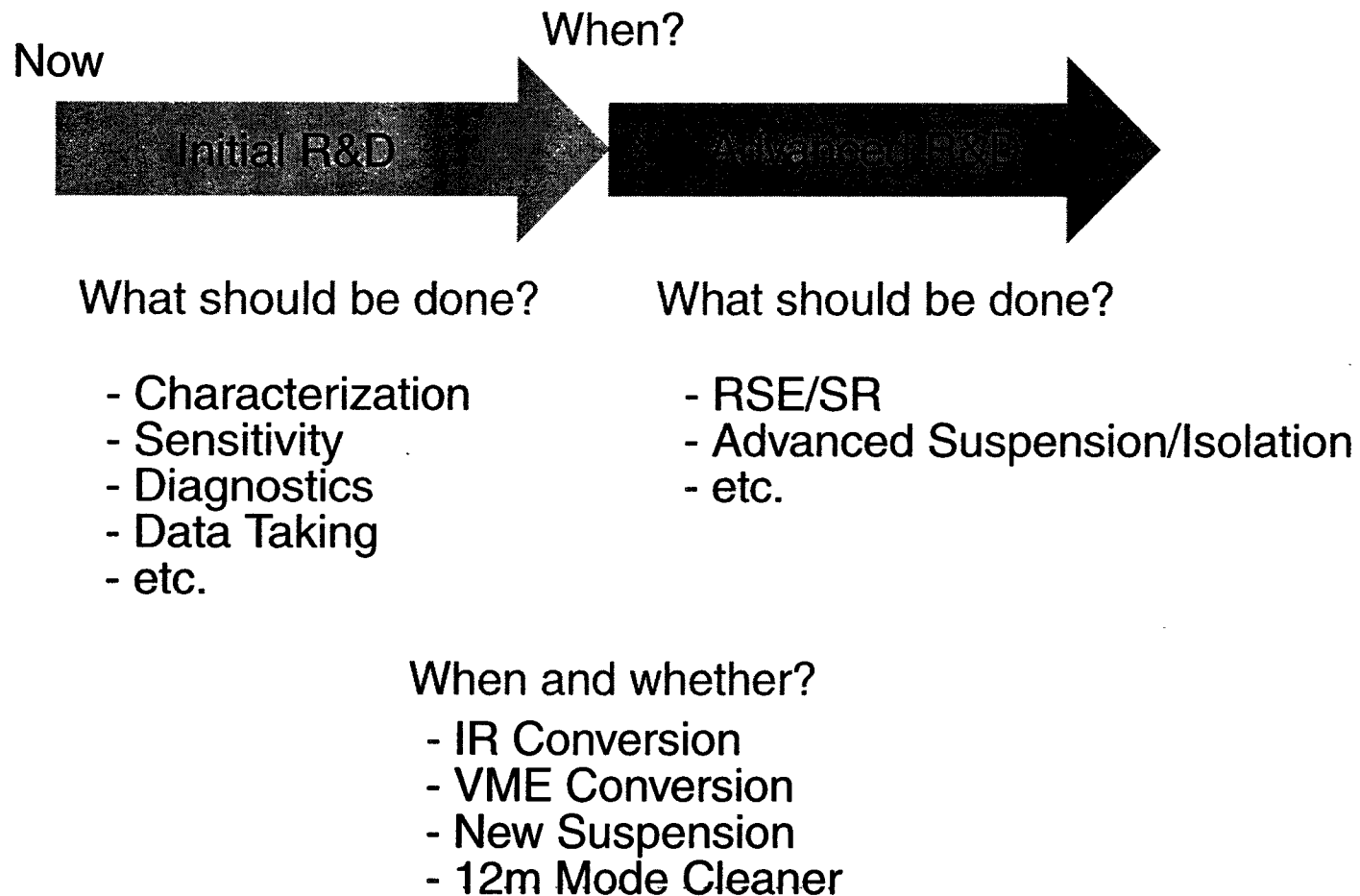


# 40m Future Plan



# 40m Future Plan Options

| Options                         | Advocate  | 97  | 98  | 99                           | 00                      | 01                                |
|---------------------------------|-----------|---|---|------------------------------|-------------------------|-----------------------------------|
| R&D for Very Advanced Technique | Whitcomb  | Recycling<br>- Characterization<br>- LIGO Test                          | IR Conversion<br>VME Conversion<br>New Suspension   | RSE/SR<br>Sapphire Test Mass |                         | Squeezing<br>Adaptive Narrow band |
| Pathfinder for LIGO Technology  | Spero     | Recycling<br>- Lock Acquisition<br>- Sensitivity<br>- Wavefront Sensing | Hardware & Software for Stability and Robustness<br>- VME Conversion<br>- New Suspension<br>- Diagnostic Procedures, Control, and Archiving |                              | IR Conversion<br>RSE/SR |                                   |
| Data Taking and Diagnostics     | Lazzarini | Recycling Characterization<br>Data Taking                               | Diagnostics & Availability Research<br>- VME Conversion<br>- New Suspension   | IR Conversion                | RSE/SR                  |                                   |