

### Challenges

- The conceptual new slug round is still in the early stages, so designing a package that can deliver high down-range energy with sufficient lethality may take some time. Due to the required energy, this will also mean that the round must be designed such that it will not fit into a regular 28 gauge shotgun. *This new product is therefore not expected to be ready for introduction until 2004.*
- 11 of the 13 slug-only states will not allow slug guns smaller than 20 gauge. A similar problem was encountered with the introduction of copper solid sabot rounds. At that time the problem was overcome by direct contact with and subsequent education of the various state DNRs (Dept's of Natural Resources). Once sufficient proof is provided that the new product has the requisite lethality, then it is anticipated that approval by the individual DNRs will not be far behind. Based on previous experience, the contact and education phase with the state agencies will begin at least 1 year from introduction to the public.
- The geometry of the Model 710 system is such that 28 gauge appears to be the best gauge to use that will fit into the existing envelope. Despite what looks like a simple development effort, there will be several design challenges around the bolt head/extractor, magazine box, barrel, etc. This will also take time and require a full R&D effort. Remington R&D is scheduled to begin this development effort in 1st Quarter 2003.
- Obviously there is no data to suggest what the rifling should be for this new gun. Because of the unknowns with the NXS ammo, it is not yet possible to predict what rifling geometry or twist rate will provide the maximum in accuracy. As the ammunition development progresses these questions will be answered, but will require significant testing to qualify the design.