



# Capability Gap in Urban Ops and Working Towards a Solution

**JOINT ARMAMENTS CONFERENCE, 2012 SEATTLE, WA**



## Rheinmetall interpretation

- There is a wide range of Urban Ops targets
- Typical targets are concrete, brick, adobe and other walls
- ABM is a good solution, not the cheapest solution
- Rheinmetall has different other solutions available
- FAP(DS) and PELE seem excellent solutions
- However all types are not an optimized for Urban Ops targets





## Rheinmetall recommendation

- **Ammunition needs penetration and fragmentation capability**
- **Trials showed that ammunition without fuze has a clear benefit over fuzed ammunition (no dangerous duds)**
- **Rheinmetall's recommendation will be a combination of FAP and PELE**
- **Additional features could be added in this round**
  - Flash effects on and/or behind the target
  - Higher pressure and incendiary effect
  - Wider fragment distribution behind the wall
- **Rheinmetall has already tested first concepts**
- **All concepts are without fuze and 100% reliable**



-86.768 ms 6000 fps





## Summary

- **Urban Area Scenario needs special requirements to the ammunition**
- **Current ammunition types are not optimized for UrbOps**
- **High performance round without fuze is recommended**
- **Rheinmetall has different solutions with FAP, PELE or combinations**
- **Rheinmetall works on optimized concepts in medium caliber**
- **Optimized UrbOps rounds can be available in a short time frame**



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**Thank you for your attention**