Problems for Statistical MT

- Preprocessing
- Language modeling
- · Translation modeling
- Decoding
- Parameter optimization
- Evaluation

MT Evaluation

- · Source only
- · Manual:
 - SSER (subjective sentence error rate)
 - Correct/Incorrect
 - Error categorization
- · Objective usage testing



- Automatic:
 WER (word error rate)
 BLEU (Bilingual Evaluation Understudy)
 - NIST
 - Named-Entity

Reference Evaluation Reference (human) translation: The U.S. Island of Guam is maintaining a high state of alert after the Guam airport and its offices both received an e-mail from' someone calling himself the Saulii Arabian Osama bin Laden and fracetaning a biological/ chemical attack against public places such as the airport places such as the airport Machine translation: The American [?] international airport and its the office al receives one calls self that sand Arab rich business [?] and so on electronic mail, which sends out; The threat will be able after public place and so on the airport to start the biochemistry attack, [?] highly alerts after the maintenance.







