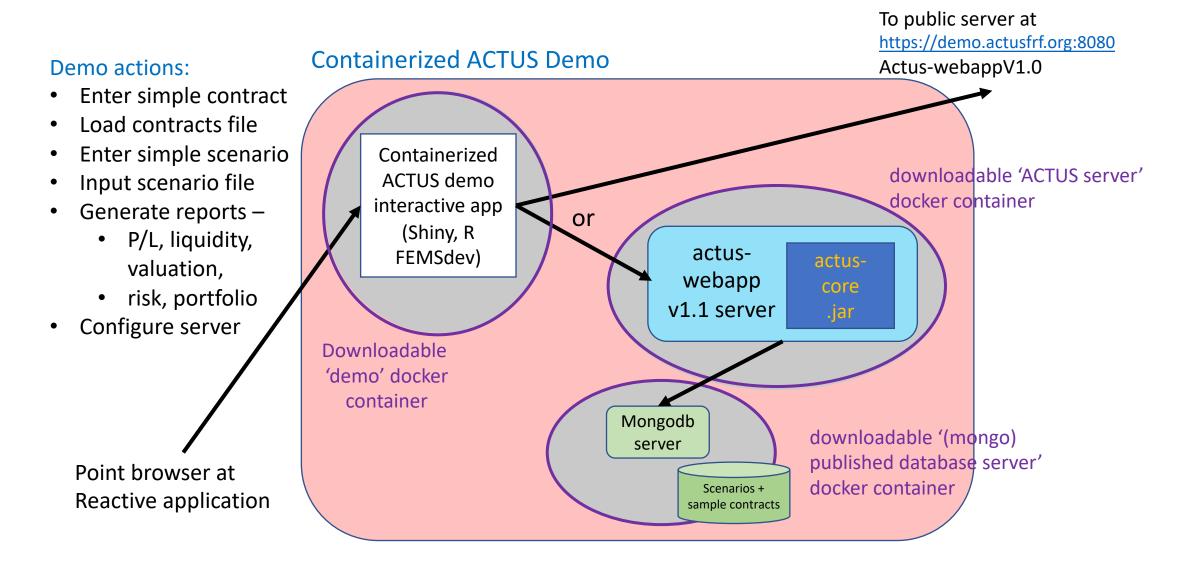# A directory of ACTUS resources – page 1 of 2

- ACTUS FinancialResearchFoundation home; https://actusfrf.org
- Contract Type list and Data Dictionary of terms , conventions, requirements etc
  - https://www.actusfrf.org/taxonomy, https://www.actusfrf.org/dictionary
  - JSON dictionary at https://github.com/actusfrf/actus-dictionary
- Technical Spec - mathematical description of behavior of each contract type
  - https://www.actusfrf.org/techspecs
  - May be "compatible with" zero knowledge proofs ?
- ACTUS public server + base demo – illustrating cashflows for example of each contract type
  - https://demo.actusfrf.org:8080
  - (1) select a contract type (2) click "DEMO CASE" for predefined examples (3) select example (4) SEND
- User guide – to build an application in (python, R etc.) *using* actus server (Userguide/blog description); WG agendas
  - in https://github.com/actusfrf/actus-userguides
- Example ACTUS contracts (all contract types) with market risk factor data and list of cashflows from simulation
  - In https://github.com/actusfrf/actus-tests

A directory of ACTUS resources –

- Cloud Rshiny demo showing use of ACTUS contracts and portfolios with selected market risk scenarios
  - https://dadfir3.shinyapps.io/DaDFiR3demo/

- User guide for downloading and configuring container images for standalone actus-rshiny-demo:
  - https://github.com/actusfrf/actus-userguides/ACTUS-Rshiny-demo

- ACTUS source code:
  - https://github.com/actusfrf/actus-webapp/
  - By registering at https://www.actusfrf.org/developers also access to core contract logic at: https://github.com/actusfrf/actus-core

- Source Code for Rshiny Demo application and supporting R services in FEMSPkg
  - https://github.com/fnparr/*FEMSdevPkg*

- Docker files and source code material for docker containers used in standalone workstation demo
  - https://github.com/fnparr/docker-ACTUS

- Downloadable docker images on DockerHub
  - dockerhub.io/fnparr/actus_server:no_mongo
  - dockerhub.io/mongo/mongodb-community-server:6.0-ubi8
  - dockerhub.io/fnparr/actus-rshiny-demo:b02 or latest

3 Container ACTUS Demo Architecture

Demo actions:

- Enter simple contract
- Load contracts file
- Enter simple scenario
- Input scenario file
- Generate reports –
  - P/L, liquidity, valuation,
  - risk, portfolio
- Configure server

Point browser at Reactive application

Containerized ACTUS Demo

To public server at
https://demo.actusfrf.org:8080
Actus-webappV1.0

Containerized ACTUS demo interactive app (Shiny, R FEMSdev)

Downloadable 'demo' docker container

or

actus-webapp v1.1 server

actus-core .jar

downloadable 'ACTUS server' docker container

Mongodb server

Scenarios + sample contracts

downloadable '(mongo) published database server' docker container

3

Contributing software to ACTUS Git repos

- All ACTUS software and documentation is a royalty free, open public asset
  - Actus-core source code is handled differently to address us export requirements ; to access email request to Allan Mendelowitz
- The git repos are public, cloneable BUT branches have owners
  - So master, development etc branches not writable directly
- To contribute create a branch – with your name in the relevant repo
  - Add software; write issue addressed ; submit pull request to get approved, integrated and adopted
- => Adding to available open source ACTUS assets encourages wider adoption of ACTUS and helps all endeavors using ACTUS