

## 3 — Handover Session Plan (5 online sessions)

### خطة جلسات التسليم (جلسات عبر الإنترنت)

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#### الجلسة ١ — الصورة | Session 1 — The big picture & first steps الكاملة والخطوات الأولى

**Before:** everyone completes [docs/00\\_prerequisites](#).

- Tool demo: the live dashboards for Jordan / Iraq / Palestine
- Architecture: Colab → Earth Engine → GitHub → Streamlit Cloud (why each piece exists)
- Hands-on: **Notebook 1** — authenticate, first map, first WaPOR image
- ☒ Outcome: everyone ran Notebook 1 end-to-end with **their own** project ID
-  Homework: exercises at the end of Notebook 1

#### الجلسة ٢ — خط البيانات | Session 2 — The data pipeline

- Theory: WaPOR v3 (levels, mapsets, region codes, scale factors); why we read FAO's bucket directly
- Hands-on: **Notebook 2** — list months, build the collection, regional time series
- Discussion: which WaPOR region codes matter for each partner; what to do for areas without L3 coverage (L2 country mosaics)
- ☒ Outcome: each team produced an AETI time-series chart for their region
-  Homework: run Notebook 2 for a second region code

#### الجلسة ٣ — نموذج المياه | Session 3 — The groundwater model الجوفية

- Theory: abstraction & recharge formulas, assumptions, limitations (the honest slide!)
- Hands-on: **Notebook 3** — run the model for a small period (e.g. 2023 only) into their own assets; watch the export tasks
- Hands-on: **Notebook 4** — verify the outputs
- ☒ Outcome: each team has `GW_Analysis_*` assets in their own Earth Engine project
-  Homework: extend the run to the full period (exports run unattended)

#### الجلسة ٤ — لوحة المعلومات | Session 4 — The dashboard

- Walkthrough of `streamlit_app.py`: translations, config files, Earth Engine calls
- Hands-on: [docs/01](#) — create service account & key

- Hands-on: [docs/02](#) — fill the `deploy_template` folder, upload to their own GitHub repo, deploy with secrets
- ☒ Outcome: each team has a **live dashboard URL** showing their own assets
- ☐ Homework: customize texts/colors; share the URL with colleagues for feedback

## الجلسة ٥ — التسليم النهائي | Session 5 — End-to-end & handover

- Full rehearsal: one team volunteers to add a *new* area from zero (notebooks 3→4 → config → push) while others follow
- Maintenance topics: updating with new WaPOR months (re-run Notebook 3 — it skips existing exports), Streamlit/package updates, key rotation
- Governance: who owns which accounts; transferring the GitHub repository or keeping forks
- Q&A and handover checklist signature
- ☒ Outcome: partners can reproduce the whole chain without the trainer

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## قائمة التسليم النهائية | Handover checklist

- [ ] Each partner: own GEE project with model assets | خاص مع GEE لكل شريك مشروع أصول النموذج
- [ ] Each partner: own fork + live dashboard + secrets set | نسخة خاصة ولوحة منشورة وأسرار مضبوطة
- [ ] Each partner ran the full pipeline at least once unaided | نفذ كل شريك الخط الكامل مرة واحدة على الأقل دون مساعدة
- [ ] Contact channel agreed for post-handover questions | قناة تواصل متفق عليها لأسئلة ما بعد التسليم