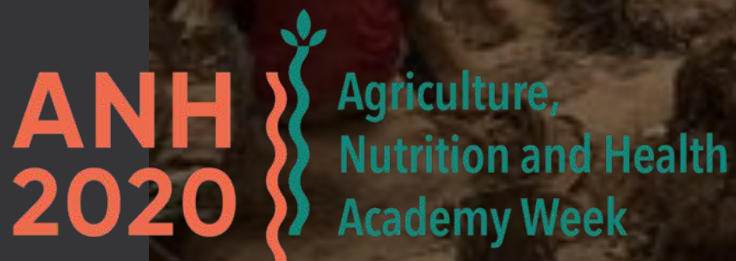


Food environments in artisanal gold mining areas of rural Guinea



<http://www.anh-academy/ANH2020>

Stella Nordhagen
On behalf of Peter Winch, Rolf Klemm, Mohammed Lamine Fofana, Alpha Oumar Barry, Sadio Diallo, Ronald Stokes-Walters, and Laetitia Zhang

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Collaborators

- **Helen Keller International**
 - Rolf Klemm (PI)
 - Stella Nordhagen – *currently with GAIN*
 - Mohammed Lamine Fofana
- **Johns Hopkins Bloomberg School of Public Health**
 - Peter Winch
- **Julius Nyerere University, Kankan Guinea (UJNK)**
 - Sadio Diallo
 - Alpha Oumar Barry
- **18 Students / Recent Graduates**



BILL & MELINDA
GATES *foundation*



**Arnold School of
Public Health**



What is artisanal
gold mining?



Informal sites



Boreholes, 12-20 m, up to 40 m, deep



Extraction by hand



Hand washing



Earn what you find

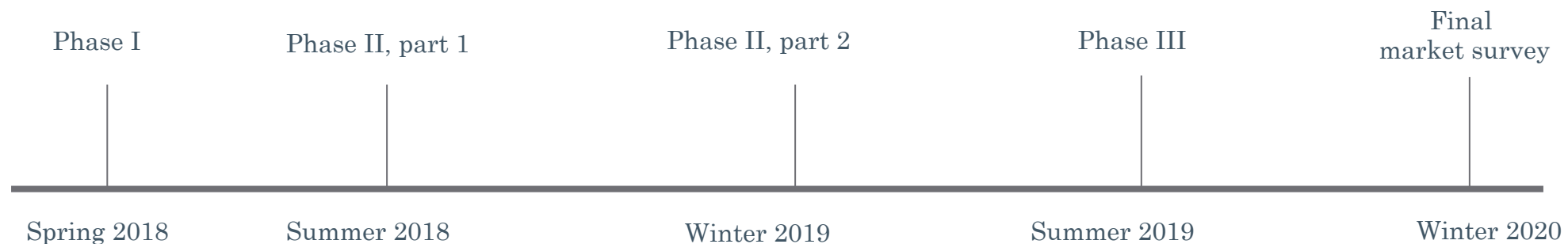
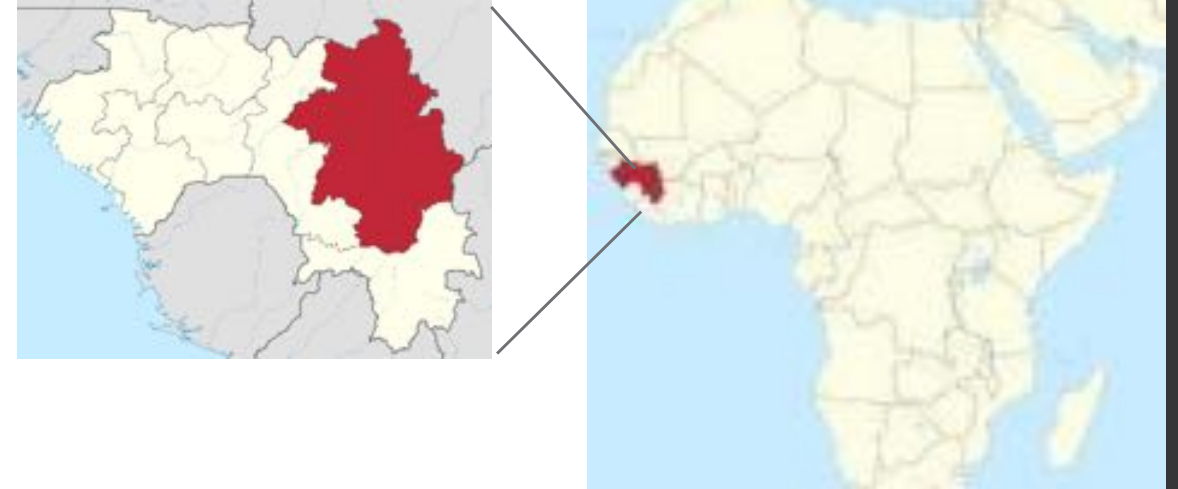


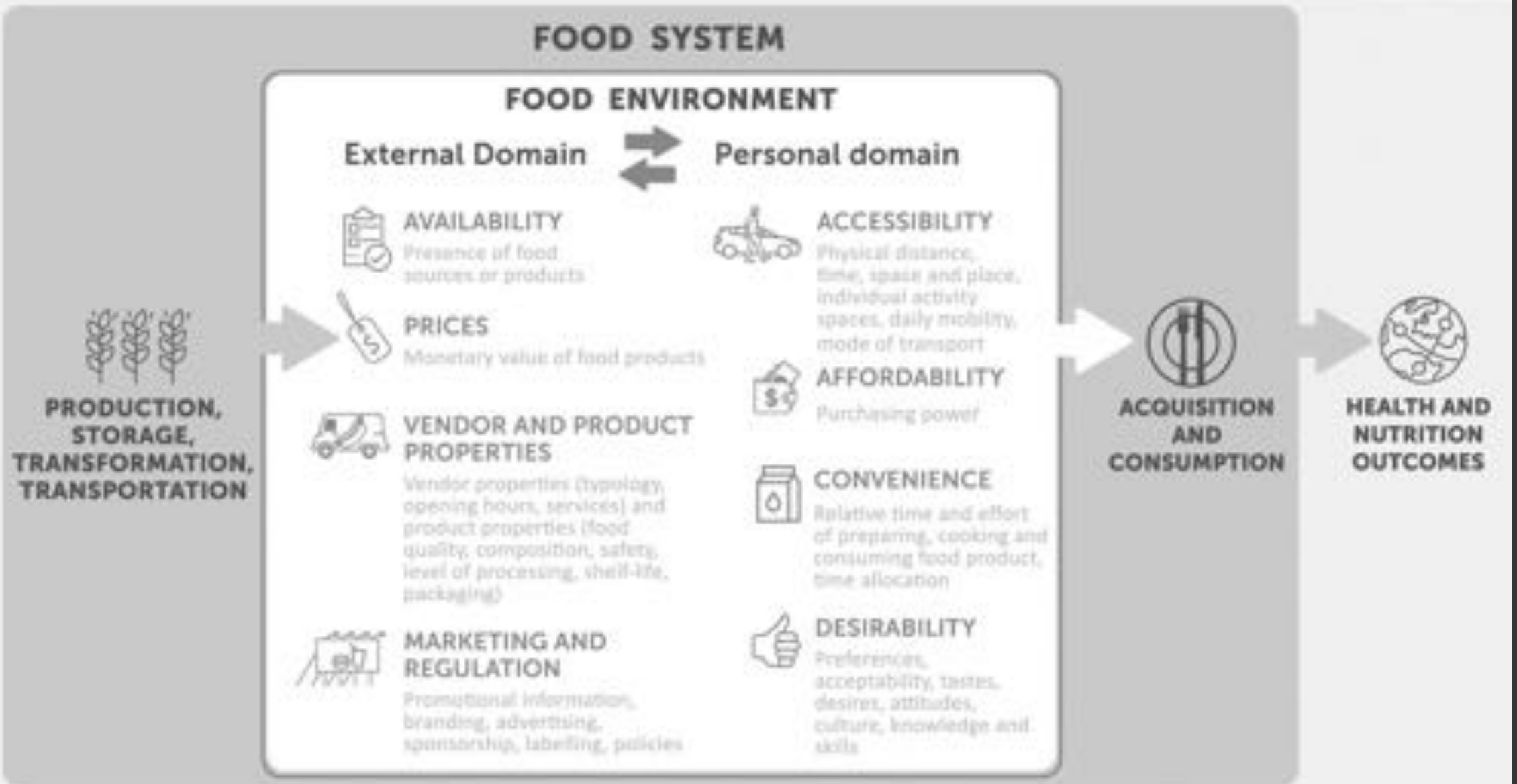
Drivers of Food Choice

Study Design

Methods

- **18 mining sites + associated villages/camps**
- **Phase I**
 - Site visits, observations, stakeholder consultation
- **Phase II**
 - Cross-sectional survey, in two waves (n=613)
 - In-depth interviews: Single miners (15), mothers of young children (25), food vendors (20)
 - Observations with mothers of young children (25)
 - Quarterly market surveys (7-8 markets)
 - stakeholder consultation
- **Phase III**
 - In-depth interviews: mothers of young children (20), food vendors (20)





Source: Turner et al. 2018

Availability & Accessibility







Prices & Affordability



“... sometimes
you can spend
the entire day
without
finding
anything, and
if you don’t
find anything,
you can’t eat.”



Food Properties & Vendor Properties





Desirability & Convenience



“The vendor I
trust, it’s
because she’s
clean. It’s not
that I like her,
it’s the
cleanliness.”





Concluding remarks

- Food environments in artisanal mining communities are dynamic; reflect interplay of consumer needs and vendor responses
- They are generally not conducive to good nutrition for either adults or children
- Need to design and test programmatic & regulatory strategies to improve these food environments



Drivers of Food Choice
Competitive Grants Program



Thank you.

#ANH2020 | @StellaNordhagen

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